Chatter Foster

Color Mixing Recipes for oil, acrylic & watercolor

Achieve precise color when painting landscapes, portraits, still lifes, and more

INCLUDES 2 COLOR MIXING GRIDS

by William F. Powell

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USING THE COLOR INDI

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IMPORTANT

Paint colors vary somework the production of this be the color samples as a measurements, you will

How To Use This Book

USING THE COLOR INDEXES

At the end of this book you will find three separate indexes. The Color Guidance Index (pages 154–162) includes all recipes for the Oil & Acrylic and Watercolor sections. Unless otherwise noted, the recipe number is the same in both the Oil & Acrylic and Watercolor sections. To find the recipe you need, simply look in the indexes for the subject you want to paint (e.g., "Tomato, Red"). Find the subject's recipe number (see image below) in the appropriate section. Note that some index entries list page numbers instead of, or in addition to, recipe numbers.

The Color Guidance Index for Portraits (page 163) includes recipes for the Color Mixing for Portraits section. This is the only index that references just page numbers for the recipes. The Color Guidance Index for Landscapes (pages 164–173) includes recipes for the Color Mixing for Landscapes section.



IMPORTANT

Paint colors vary somewhat among brands, and even though extreme care was taken in the production of this book, slight variations in printing may occur. Nevertheless, if you use the color samples as a general guide, follow the recipes, and use accurate paint and water measurements, you will achieve great success in mixing beautiful colors.

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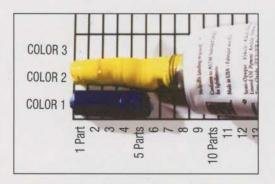
Instructions

This book is divided into six sections: Color Theory (pages 8–11), General Color Mixing for Oil & Acrylic (pages 12–40), General Color Mixing for Watercolor (pages 42–70), Color Mixing for Portraits (pages 72–115), Color Mixing for Landscapes (pages 116–153), and three color guidance indexes (pages 154–173). The paint colors needed for the recipes in this book are listed at the beginning of each color mixing section. Be sure to read through the instructions and the Color Theory section before following the recipes in the other sections.

USING THE OIL & ACRYLIC MIXING GRID

Use the plastic Oil & Acrylic Color Mixing Grid to measure the paint for each oil and acrylic recipe. Use each square as one part and squeeze the paint out in uniform widths and lengths according to the formula. Some colors are so strong that only a minute amount is required to alter the color. When these colors are called for, the measurement in the recipe (which is about the size of a large pinhead) is referred to as a "speck" with a dot •.

The Oil & Acrylic Color Mixing Grid can also be used to measure the paint for your own color mixtures. Use the Notes sections on pages 41, 71 and 175 to make notations of the quantity of each color you use so you can repeat the mixtures in the future.



Tip: Keep your mixtures simple. Don't mix too many different colors together because the color may become "muddy." However, even muddy colors are beautiful when used properly.

USING THE WATERCOLOR MIXING GRID Water Dilution Levels

Each watercolor recipe in this book indicates a specific Water Level. The Water Level indicates whether the mixture should be heavily diluted with water, which makes the color's intensity lighter and paler, or lightly diluted, which makes it darker and stronger. Level 1 is the thinnest, lightest intensity and requires the greatest amount of water. Level 2 is also thin and light but calls for slightly less water than Level 1. Level 3 is medium intensity, requiring less water than Level 2. Level 4 is strong intensity, using just a small amount of water. Level 5 is the strongest intensity and needs little or no water. See the key at right for Water Level samples.

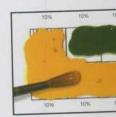


Measuring The Colors

Use the plastic Waterco amounts of paint for ea each rectangle represe cadmium yellow and 40 rectangles of sap greer the smaller sections of Some recipes call for a small bead of water). V "Water Dilution Levels"

Mixing The Paint On Th

To use the grid, first dipaintbrush to pull the conthe grid to achieve



Filling the squares As paint on the grid (in this yellow and 40% sap grebetween the colors to ke into one another.

MIXING AND STORI

You can mix and stormixed color for future can be stored in empfor this purpose. For can purchase empty your own colors. For inexpensive empty portainers with lids.

Instructions

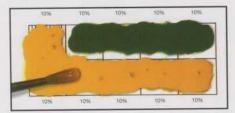
Measuring The Colors

Use the plastic Watercolor Color Mixing Grid at the back of this book to measure the proper amounts of paint for each watercolor recipe. The grid is composed of ten rectangles, with each rectangle representing 10% of the total mix. (So, for example, if the recipe calls for 60% cadmium yellow and 40% sap green, you would mix 6 rectangles of cadmium yellow with 4 rectangles of sap green. See examples below.) When less than 10% of a color is needed, use the smaller sections of the first rectangle on the applicable grid.

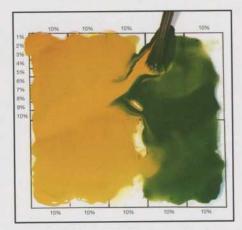
Some recipes call for a drop of paint, which is less than 1% of the mix (about the size of a small bead of water). When using the large grid, a drop always should be Water Level 5 (see "Water Dilution Levels" above); when using the small grid, a drop always should be Level 4.

Mixing The Paint On The Grid

To use the grid, first dilute each recipe color to the indicated Water Level. Next use a wet paintbrush to pull the diluted colors onto the grid in the suggested ratios. Then mix the colors on the grid to achieve the desired color. Rinse and wipe the plastic grid clean when finished.



Filling the squares As you're measuring the paint on the grid (in this case, 60% cadmium yellow and 40% sap green), leave a bit of room between the colors to keep them from running into one another.



Using the grid as a palette Once you've finished measuring the paints on the grid, simply pull the colors together and mix them with your brush.

MIXING AND STORING LARGE AMOUNTS OF COLOR

You can mix and store large amounts of a mixed color for future use. Once mixed, color can be stored in empty containers made for this purpose. For oil and acrylic, you can purchase empty paint tubes and label your own colors. For watercolor, purchase inexpensive empty pans or tiny plastic containers with lids.



ColorTheory

There are three things to consider when mixing colors: hue, value, and intensity (also known as **chroma**). **Hue** refers to the name of a pure color; **value** refers to the lightness or darkness of color; and **intensity** refers to the brightness or dullness of a color.

MIXING HUES

There are three **primary** colors (hues): yellow, red, and blue. All other colors are derived from these three hues.



Mixing primary colors together results in a secondary color, as shown below.



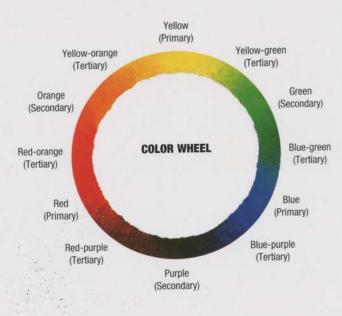


The secondary colors—orange, green, and purple—can be mixed with each other or any of the primary colors to create other colors.

Mixing a primary color—yellow, red, or blue—with a secondary color—orange, green, or purple—results in a third group known as **tertiary** colors. After mixing these colors, you can make a basic **color wheel** containing 12 major color groups. This makes a convenient chart that can be used as a working tool and reference guide for mixing colors and creating color palettes.

MIXING VALUES

Value is the lightness or darkness of a color. On the color wheel, yellow has the lightest value and purple has the darkest. Notice that the colors change in value, becoming lighter as they move up the color wheel and darker as they move down the color wheel.



MIXING TINTS,

Color is a phenor to black, white is absence of light a



Mixing white (or w known as the valu value mix can be umber and ultrama A painting done so painting. A painting single color is known

KEEPING COLOR

Color mixes can be



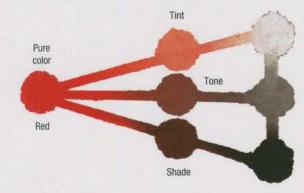
Whenever you add white to a color, or water if yo are using watercolors, also add a speck of the color above it on the col wheel; e.g., when addin white to red-orange, als add a speck of orange.

Whenever you add above or below the too far away, you we resemble one anotare called analogo

ColorTheory

MIXING TINTS, TONES, AND SHADES

Color is a phenomenon of light; without light there is no color. On the value scale of white to black, white is considered to be "light," and black is considered to be "dark." Dark is the absence of light and, therefore, the absence of color.



Adding white, or water for watercolors, to any color results in a **tint** of that color.

Adding gray to any color results in a **tone** of that color.

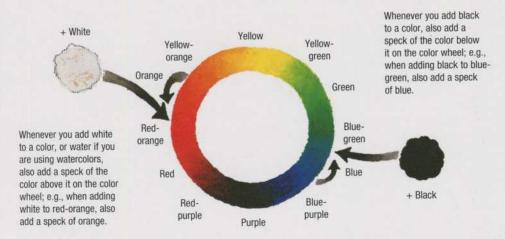
Adding black to any color results in a **shade** of that color.

Mixing white (or water) and black together in varying amounts creates a variety of grays known as the **value scale.** When a color is mixed with black, it is a **cool value** mix. A **warm value** mix can be made by using a dark warm color, such as burnt umber or a mix of burnt umber and ultramarine blue.

A painting done solely in white, black, and different values of gray is known as an **achromatic** painting. A painting done with tints, tones, and shades (along with various intensities) of a single color is known as a **monochromatic** painting.

KEEPING COLOR MIXES FRESH AND LIVELY

Color mixes can be kept "fresh" and less dull by following the two simple rules shown below.



Whenever you add white (or water) or black to a color, the extra color selected from either above or below the color should be close to the color on the wheel. If you choose a color too far away, you will make a new color. The two colors should be analogous. (Colors that resemble one another but are slightly different and are close to each other on the color wheel are called **analogous** colors.)

ColorTheory

WARM AND COOL COLORS

Generally colors on the left side of the wheel (with the red family of colors) are considered warm colors, and colors on the right side of the wheel (with the blue family of colors) are considered cool colors.

Within all families of colors, however, there are both warm and cool colors. For instance, a blue that contains more red (purplish blue) is warmer than a blue that contains yellow (greenish blue). On the other side of the wheel, a red that contains more blue (purplish red) is cooler than a red that contains yellow (orangish red).



KEY COLOR HARMONY

The **key color** is the dominant color in a painting or in several different color mixtures. The key color is sometimes referred to as the "mother color" because a bit of the color is added to all of the mixtures to create color unity and harmony.

COLOR PSYCHOLOGY

Color psychology is a rather complex subject. Color affects our reactions, emotions, and feelings. Different people, however, may react differently to the same color or colors. For example, red may be a favorite color for some, blue or green for others. A few simple points on color psychology and the typical reactions to certain colors are illustrated below.



Dark colors, such as purples and deep blues, are considered moody or sometimes even threatening.



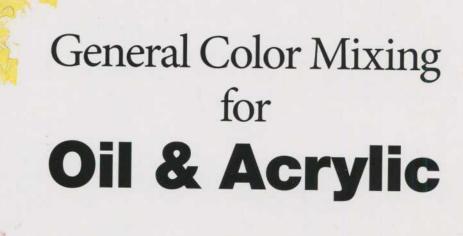
Light, bright colors are usually considered pleasant colors. If they aren't too bright, they are comfortable to view.

When bright, raw colors are placed next to one another, they appear loud, gaudy, and harsh. This is demonstrated here with the combination of blue, red, and green.



HIGH KEY AND LOW KEY USE OF COLOR

A painting that contains a lot of white and can be compared to the lighter end of the value scale is called a **high key** painting. A painting that contains a lot of black and darks and can be compared to the darker end of the value scale is called a **low key** painting.



PaintColorsNeeded

You will need all of the following colors for the recipes in this section. Note: Some acrylic color names will vary depending on the manufacturer; also, some of these colors are not available in acrylic and must be mixed. Please refer to the Oil/Acrylic Color Conversion Chart (page 174).

Alizarin crimson	Naples yellow
Burnt sienna —	Permanent blue
Burnt umber —	Permanent green light
Cadmium orange	Phthalo blue
Cadmium red light —	Phthalo green
Cadmium vermilion	Phthalo red rose
Cadmium yellow medium —	Phthalo yellow-green
Cadmium yellow light	Raw sienna -
Cerulean blue —	Titanium white 🕳
Chrome oxide green	Ultramarine blue 🕳
Cobalt blue	Venetian red
Cobalt violet	Vermilion
Ivory black	Viridian green
Magenta	Yellow ochre —
Mauve	Zinc yellow

General Color Mixing for Oil & Acrylic

Contents

	Color	Recipes	٠.													15.	-3	5
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- Graying with Complements....39–40

- · Cadmium Yellow Light
- · Cadmium Yellow Medium
- · Naples Yellow
- Titanium White



1. 6 white 1 Naples yellow 1 speck cadmium yellow light



2. 18 white 1 cadmium yellow medium



3. 9 white 1 cadmium yellow light



4. 4 white 1 Naples yellow 1 speck cadmium yellow light



5. 10 white 1 cadmium yellow medium



6. 6 white 1 cadmium yellow light



7. 4 white 2 Naples yellow 1 cadmium yellow light



8. 5 white 1 cadmium yellow medium



9. 4 white 1 cadmium yellow light



10. 4 white 4 Naples yellow 1 cadmium yellow light



11. 3 white 1 cadmium yellow medium



12. 2 white 1 cadmium yellow light



13. 8 Naples yellow 2 white 1 cadmium yellow light



14. 1 white 1 cadmium yellow medium



15. 1 white 1 cadmium yellow light

18. Cadmium yellow light (pure)

27. 4 white 4 cadmium yellow light 1 cerulean blue 1

24. 8 cadmium yellow light 1 cerulean blue

21. 16 cadmium yellow light 1 cerulean blue

Ñ.

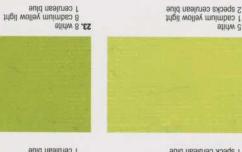
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- 17. 1 white 1 cadmium yellow light



















16

28. 15 white 4 cadmium yellow light 3 cerulean blue

25. 10 white 2 cadmium yellow light 1 cerulean blue



- 20. 16 white 16 cadmium yellow light 1 cerulean blue

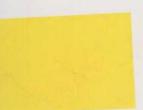
29. 4 white 4 cadmium yellow light 2 cerulean blue

26. 16 white 16 cadmium yellow light 3 cerulean blue

- - 1 cadmium yellow light 16. 5 white

- · Cadmium Yellow Light

- Phthalo Blue
- Titanium White
- · Zinc Yellow



31. 5 white 1 zinc yellow



32. 1 white 1 zinc yellow



33. Zinc yellow (pure)



34. 5 white 1 zinc yellow 1 speck phthalo blue



35. 4 white 4 zinc yellow 1 speck phthalo blue



36. 5 zinc yellow 1 speck phthalo blue



37. 5 white 1 zinc yellow 2 specks phthalo blue



38. 4 white 4 zinc yellow 2 specks phthalo blue



39. 5 zinc yellow 2 specks phthalo blue



40. 5 white 1 zinc yellow 3 specks phthalo blue



41. 4 white 4 zinc yellow 3 specks phthalo blue



42. 16 zinc yellow 1 phthalo blue



43. 20 white 4 zinc yellow 1 phthalo blue



44. 16 white 16 zinc yellow 1 phthalo blue



45. 8 zinc yellow 1 phthalo blue

- · Cadmium Yellow Medium
- . Titanium White
- Viridian Green



46. 9 white 1 cadmium yellow medium



47. 2 white 1 cadmium yellow medium



48. 1 white 4 cadmium yellow medium



49, 9 white 1 cadmium yellow medium 1 speck viridian green



50. 2 white 1 cadmium yellow medium 1 speck viridian green



51. 1 white 4 cadmium yellow medium 1 speck viridian green



52. 18 white 2 cadmium yellow medium 1 viridian green



53. 8 white 4 cadmium yellow medium 1 viridian green



54. 2 white 8 cadmium yellow medium 1 viridian green



55, 9 white 1 cadmium yellow medium 1 viridian green



56. 4 white 2 cadmium yellow medium 1 viridian green



57. 1 white 4 cadmium yellow medium 1 viridian green



58. 9 white 1 cadmium yellow medium 2 viridian green



59, 2 white 1 cadmium yellow medium 1 viridian green



60. 1 white 4 cadmium yellow medium 2 viridian green

- · Cadmium Orange
- Cerulean Blue
- · Naples Yellow
- Titanium White



61. 16 white 1 cadmium orange 1 Naples yellow



62. 8 white 1 cadmium orange 1 Naples yellow



63, 6 white 2 cadmium orange 1 Naples yellow



64. 3 white 3 Naples yellow 1 speck cadmium orange



65. 6 Naples yellow 1 cadmium orange 1 white



66, 3 Naples yellow 2 cadmium orange 1 speck cerulean blue



67. 3 Naples yellow 1 speck cadmium orange 1 speck cerulean blue



68. 12 Naples yellow 1 cadmium orange 3 specks cerulean blue



69. 3 cadmium orange 1 Naples yellow



70. 2 Naples yellow 2 specks cerulean blue 1 speck cadmium orange



71. 1 cerulean blue 3 Naples yellow 1 speck cadmium orange



72. 8 cerulean blue 12 Naples yellow 1 cadmium orange



73. 2 Naples yellow 1 speck cerulean blue



74. 4 Naples yellow 1 cerulean blue



75. 3 cerulean blue 1 Naples yellow

- Phthalo Blue
- Raw Sienna
- · Titanium White
- · Zinc Yellow



76. 3 white 4 specks raw sienna 1 speck zinc yellow



77. 3 white 1 raw sienna 1 speck zinc yellow



78. 4 white 5 raw sienna



79. 8 white 4 zinc yellow 1 raw sienna



80. 6 recipe #77 1 recipe #90 5 specks zinc yellow



81. 2 recipe #78 1 speck recipe #90



82. 5 white + 2 zinc yellow 1 speck recipe #90 1 speck raw sienna



83. 4 white + 8 recipe #90 2 raw sienna 1 zinc yellow



84. 2 recipe #78 1 recipe #90



85. 3 white 4 specks recipe #90 1 speck zinc yellow



86. 1 white + 1 recipe #90 1 speck raw sienna 1 speck zinc yellow



87. 5 recipe #90 2 recipe #78



88. 8 white 1 recipe #90 4 specks zinc yellow



89. 1 recipe #90 2 white 1 speck raw sienna



90. 1 white 1 phthalo blue

COLORS USED

- Burnt Umber
- Naples Yellow
- Phthalo Blue
- Titanium White



91. 15 white 1 tiny speck recipe #105 1 tiny speck Naples yellow



92. 20 white 1 speck recipe #105 1 speck Naples yellow



93. 15 white 1 speck recipe #105



94. 13 white 1 speck recipe #105 2 specks Naples yellow



95, 20 white 1 recipe #105 1 Naples yellow



96. 14 white 1 recipe #105



97. 10 white 1 speck recipe #105 3 specks Naples yellow



98, 10 white 1 recipe #105 2 Naples yellow



99. 7 white 1 recipe #105



100. 17 white 1 recipe #105 3 Naples yellow



101. 5 white 1 recipe #105 3 Naples yellow



102. 3 white 1 recipe #105



103. 9 white 1 recipe #105 3 Naples yellow



104. 1 white 1 recipe #105 2 Naples yellow



105. 2 burnt umber 1 phthalo blue

- · Phthalo Blue
- Phthalo Green
- · Titanium White



106. 14 white 1 speck phthalo green



107. 1 recipe #106 1 recipe #108



108. 14 white 1 speck phthalo blue



109. 12 white 2 specks phthalo green



110. 1 recipe #109 1 recipe #111



111. 12 white 2 specks phthalo blue



112. 10 white 3 specks phthalo green



113. 1 recipe #112 1 recipe #114



114. 10 white 3 specks phthalo blue



115. 15 white 1 phthalo green



116. 1 recipe #115 1 recipe #117



117. 15 white 1 phthalo blue



118, 6 white 1 phthalo green



119. 1 recipe #118 1 recipe #120



120. 6 white 1 phthalo blue

- · Alizarin Crimson
- Cerulean Blue
- Permanent Blue
- Titanium White



121. 8 white 1 speck cerulean blue



122. 3 white 1 recipe #134



123. 18 white 1 permanent blue



124. 3 white 1 cerulean blue



125. 2 white 1 recipe #134



126, 2 white 1 permanent blue 1 speck alizarin crimson



127. 2 white 1 cerulean blue



128. 1 white 1 recipe #134 1 speck alizarin crimson



29. 3 white 2 permanent blue 1 speck alizarin crimson



136. 2 cerulean blue 1 white



131, 2 white 3 recipe #134 2 specks alizarin crimson



132. 2 permanent blue 1 white 1 speck alizarin crimson



133, 4 cerulean blue 1 speck white 1 speck alizarin crimson



134. 1 permanent blue 1 cerulean blue 1 speck white



135. 3 permanent blue 1 white 1 speck alizarin crimson

- · Phthalo Red Rose
- . Titanium White
- · Ultramarine Blue



151. 6 white 1 speck ultramarine blue



152. 6 white 1 speck ultramarine blue 1 speck phthalo red rose



153. 6 white 1 speck ultramarine blue 2 specks phthalo red rose



154. 4 white 1 ultramarine blue



155. 4 white 1 ultramarine blue 2 specks phthalo red rose



156, 4 white 1 ultramarine blue 1 phthalo red rose



157. 3 white 2 ultramarine blue



158. 6 white 4 ultramarine blue 1 phthalo red rose



159. 3 white 2 ultramarine blue 2 phthalo red rose



160, 2 white 3 ultramarine blue



161. 2 white 3 ultramarine blue 2 specks phthalo red rose



162. 2 white 3 ultramarine blue 1 phthalo red rose



163. 1 white 3 ultramarine blue



164. 1 white 3 ultramarine blue 2 specks phthalo red rose



165. 1 white 3 ultramarine blue 1 phthalo red rose

- Alizarin Crimson
- Burnt Umber
- Permanent Blue
- · Titanium White



136. 5 white 3 specks recipe #138



137. 2 white 2 recipe #138 1 recipe #150



138. 1 white 5 permanent blue



139, 4 white 1 speck recipe #138 1 speck recipe #150



140. 2 white 3 recipe #138 4 specks recipe #150



141. 3 white 6 recipe #138 1 recipe #150



142. 6 white 4 recipe #138 1 recipe #150



143. 5 white 4 recipe #138 1 recipe #150



144. 1 white 6 recipe #138 2 recipe #150



145. 4 white 6 recipe #138 1 recipe #150



146. 5 white 4 recipe #138 2 recipe #150



147. 3 white 6 recipe #138 3 recipe #150



148. 3 white 4 recipe #138 2 recipe #150



149, 2 white 5 permanent blue 3 recipe #150



150. 8 burnt umber 8 alizarin crimson 3 white

- · Cobalt Violet
- Magenta

- · Permanent Blue
- Titanium White



166. 10 white 1 cobalt violet 1 speck permanent blue



167. 10 white 1 cobalt violet



168, 20 white 1 magenta



169. 10 white 2 cobalt violet 1 permanent blue



170. 5 white 1 cobalt violet



171. 9 white 1 magenta



172. 6 white 2 cobalt violet 1 permanent blue



173. 3 white 1 cobalt violet



174. 4 white 1 magenta



175. 3 white 2 cobalt violet 1 permanent blue



176. 3 white 2 cobalt violet



177. 2 white 1 magenta



178. 1 white 2 cobalt violet 1 permanent blue



179. 1 white 2 cobalt violet



180. 1 white 2 magenta

- Alizarin Crimson
- Cobalt Violet
- · Phthalo Red Rose
- . Titanium White



181. 5 white 1 speck phthalo red rose 1 speck cobalt violet



182. 5 white 1 speck phthalo red rose



183. 5 white 1 speck alizarin crimson



184. 8 white 2 phthalo red rose 1 cobalt violet



185. 4 white 1 phthalo red rose



186. 14 white 1 alizarin crimson



187. 8 white 8 phthalo red rose 1 cobalt violet



188. 1 white 1 phthalo red rose



189. 12 white 2 alizarin crimson 1 phthalo red rose



190. 4 white 6 phthalo red rose 1 cobalt violet



191. 2 white 3 phthalo red rose



192. 12 white 6 alizarin crimson 1 phthalo red rose



193. 1 white 4 phthalo red rose 1 cobalt violet



194. 1 white 4 phthalo red rose



195. 12 white 10 alizarin crimson 1 phthalo red rose

- Burnt Sienna
- Burnt Umber
- Titanium White
- Venetian Red



196. 5 white 1 speck Venetian red



197. 5 white 1 speck burnt umber



198. 6 white 1 burnt sienna



199. 5 white 2 specks Venetian red



200. 10 white 1 burnt umber



201. 4 white 1 burnt sienna



202. 5 white 3 specks Venetian red



203. 6 white 1 burnt umber



204. 2 white 1 burnt sienna



205. 12 white 1 Venetian red



206. 4 white 1 burnt umber



207. 1 white 1 burnt sienna



208. 3 white 1 Venetian red



209. 2 white 1 burnt umber



210. 1 white 2 burnt sienna

- · Alizarin Crimson
- · Cadmium Yellow Light
- Titanium White



211. 20 white 1 alizarin crimson



212. 9 white 2 alizarin crimson



213. 1 white 3 alizarin crimson



214, 20 white 1 alizarin crimson 1 cadmium yellow light



215. 11 white 3 alizarin crimson 5 cadmium yellow light



216. 1 white 3 alizarin crimson 2 cadmium yellow light



217. 20 white 1 alizarin crimson 3 cadmium yellow light



218. 9 white 2 alizarin crimson 5 cadmium yellow light



219. 1 white 3 alizarin crimson 9 cadmium yellow light



220. 20 white 1 alizarin crimson 7 cadmium yellow light



221. 4 white 1 alizarin crimson 5 cadmium yellow light



222. 1 white 3 alizarin crimson 11 cadmium yellow light



223. 20 white 1 alizarin crimson 20 cadmium yellow light



224. 4 white 1 alizarin crimson 12 cadmium yellow light



225. 1 white 3 alizarin crimson 18 cadmium yellow light

- Cadmium Red Light
- Cadmium Vermilion
- Titanium White
- · Yellow Ochre



226. 21 white 1 cadmium vermilion



227. 20 white 1 cadmium red light



228. 6 white 1 recipe #240



229. 14 white 1 cadmium vermilion



230. 7 white 1 cadmium red light



231. 4 white 1 recipe #240



232. 3 white 1 cadmium vermilion



233. 2 white 1 cadmium red light



234. 2 white 1 recipe #240



235. 1 white 1 cadmium vermilion



236. 1 white 2 cadmium red light



237. 1 white 1 recipe #240



238. Cadmium vermilion (pure)



239. Cadmium red light (pure)



240. 1 yellow ochre 1 cadmium red light

- Cadmium Red Light
- · Titanium White
- · Zinc Yellow



241. 18 white 1 cadmium red light



242. 8 white 2 cadmium red light



243. 2 white 4 cadmium red light



244. 18 white 1 cadmium red light 2 zinc yellow



245. 16 white 4 cadmium red light 3 zinc yellow



246. 2 white 4 cadmium red light 4 zinc yellow



247. 18 white 1 cadmium red light 4 zinc yellow



248. 8 white 2 cadmium red light 4 zinc yellow



249. 2 white 4 cadmium red light 14 zinc yellow



250. 18 white 1 cadmium red light 9 zinc yellow



251. 8 white 2 cadmium red light 7 zinc yellow



252. 1 white 2 cadmium red light 10 zinc yellow



253. 18 white 1 cadmium red light 18 zinc yellow



254. 4 white 1 cadmium red light 7 zinc yellow



255. 1 white 2 cadmium red light 15 zinc yellow

- Cadmium Orange
- Titanium White
- · Zinc Yellow



256. 10 white 1 cadmium orange



257. 4 white 1 cadmium orange



258. Cadmium orange (pure)



259. 10 white 1 cadmium orange 1 zinc yellow



260. 4 white 1 cadmium orange 1 zinc yellow



261. 2 zinc yellow 1 cadmium orange



262. 11 white 1 cadmium orange 3 zinc yellow



263. 8 white 2 cadmium orange 3 zinc yellow



264. 7 zinc yellow 2 cadmium orange



265. 8 white 1 cadmium orange 6 zinc yellow



266. 9 white 2 cadmium orange 3 zinc yellow



267. 5 zinc yellow 2 cadmium orange



268. 2 white 1 zinc yellow 1 speck cadmium orange



269. 9 white 2 cadmium orange 3 zinc yellow



270. 5 zinc yellow 3 specks cadmium orange

- Cadmium Orange
- Permanent Green Light
- · Titanium White



271. 16 white 1 cadmium orange



272. 4 white 1 cadmium orange



273. 2 white 2 cadmium orange



274. 32 white 2 cadmium orange 1 permanent green light



275. 8 white 2 cadmium orange 1 permanent green light



276. 2 white 2 cadmium orange 1 permanent green light



277. 16 white 1 cadmium orange 1 permanent green light



278. 8 white 2 cadmium orange 3 permanent green light



279, 2 white 2 cadmium orange 2 permanent green light



280, 32 white 2 cadmium orange 3 permanent green light



281. 8 white 2 cadmium orange 5 permanent green light



282. 2 white 2 cadmium orange 3 permanent green light



283. 32 white 2 cadmium orange 5 permanent green light



284. 4 white 1 cadmium orange 3 permanent green light



285, 4 white 4 cadmium orange 9 permanent green light

- Titanium White
- Ultramarine Blue
- · Yellow Ochre



286. 8 white 1 yellow ochre



287. 8 white 1 yellow ochre 1 speck ultramarine blue



288. 8 white 1 yellow ochre 3 specks ultramarine blue



289. 5 white 2 yellow ochre



290. 5 white 2 yellow ochre 2 specks ultramarine blue



291. 5 white 3 yellow ochre 1 ultramarine blue



292. 6 white 3 yellow ochre



293. 6 white 3 yellow ochre 1 ultramarine blue



294. 6 white 4 yellow ochre 1 ultramarine blue



295. 1 white 2 yellow ochre



296. 4 white 8 yellow ochre 3 ultramarine blue



297. 2 white 5 yellow ochre 3 ultramarine blue



298. 1 white 5 yellow ochre



299. 5 yellow ochre 1 ultramarine blue



300. 2 yellow ochre 1 ultramarine blue

COLORS USED

- · Burnt Sienna
- · Cadmium Red Light
- Naples Yellow
- Titanium White



301. 3 white 1 Naples yellow



302, 2 white 2 Naples yellow 1 speck cadmium red light



303. 2 white + 2 Naples yellow 1 speck cadmium red light 1 speck burnt sienna



304. 5 white 5 Naples yellow



305. 1 white 4 Naples yellow 2 specks cadmium red light



306. 1 white + 5 Naples yellow 1 speck cadmium red light 2 specks burnt sienna



307. 5 Naples yellow 1 white

The same



308. 4 white 24 Naples yellow 1 cadmium red light



309. 1 white + 5 Naples yellow 1 burnt sienna 1 speck cadmium red light



310. 3 Naples yellow 1 speck burnt sienna



311. 4 white + 24 Naples yellow 1 cadmium red light 3 specks burnt sienna



312. 2 white + 12 Naples yellow 1 cadmium red light 2 burnt sienna



313, 4 Naples yellow 1 burnt sienna



314. 2 Naples yellow 1 burnt sienna 1 speck cadmium red light



315. 2 Naples yellow 2 burnt sienna 1 speck cadmium red light

ValueRecipes Cadmium Yellow Light COLORS USED · Ivory Black · Titanium White White has been added at the bottom of each color to show the tint of the color. Cadmium yellow light Cadmium yellow light Cadmium yellow light 330. 1 speck ivory black 2 cadmium yellow light 325. 1 gray 10 cadmium yellow light 320. 1 white 1 cadmium yellow 329. 2 specks ivory black 2 cadmium yellow light 319. 8 white 1 cadmium yellow light 324. 1 gray 5 cadmium yellow 328, 1 ivory black 11 cadmium yellow light 318. 9 white 1 cadmium yellow light 323. 1 gray 3 cadmium yellow



Gray 7 white ivory black

White

ValueRecipes

COLORS USED

White has been added at the bottom of each color to show the tint of the color.

- · Ivory Black
- · Titanium White
- Vermillion



White

ValueRecipes

COLORS USED

White has been added at the bottom of each color to show the tint of the color.

- · Cerulean Blue
- Ivory Black
- · Titanium White



White

GrayingWithComplements

DLORS USED

has been added at ottom of each color to the tint of the color.

- Cadmium Orange
- Cadmium Yellow Medium
- · Cadmium Yellow Pale
- Cerulean Blue
- Cobalt Violet
- Mauve

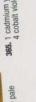






365. 1 cadmium yellow pale 4 cobalt violet





364, 1 cadmium yellow pale 1 cobalt violet



363. 4 cadmium yellow pale 1 cobalt violet



361. 1 cadmium yellow pale 2 specks cobalt violet





370. 1 cad. yellow medium 2 mauve







































372. 4 cadmium orange 1 cerulean blue



GrayingWithComplements

COLORS USED

White has been added at the bottom of each color to show the tint of the color.

- Alizarin Crimson
- Cadmium Red Light
- Cobalt Violet
- Permanent Green Light
- · Phthalo Yellow-Green
- Zinc Yellow



Permanent green light



Phthalo yellow-green



Zinc



380, 1 speck cad. red light 1 permanent green light



385. 1 speck alizarin crimson 4 phthalo yellow-green



390. 1 speck cobalt violet 3 zinc yellow



379. 1 speck cad. red light 3 permanent green light



384. 1 speck alizarin crimson 3 phthalo yellow-green



369. 1 speck cobalt violet 2 zinc yellow

100

M H



378. 1 cadmium red light 1 permanent green light

377. 2 cadmium red light 1 permanent green light





362. 3 specks aliz. crimson 1 phthaio yellow-green

















Cadmium red light



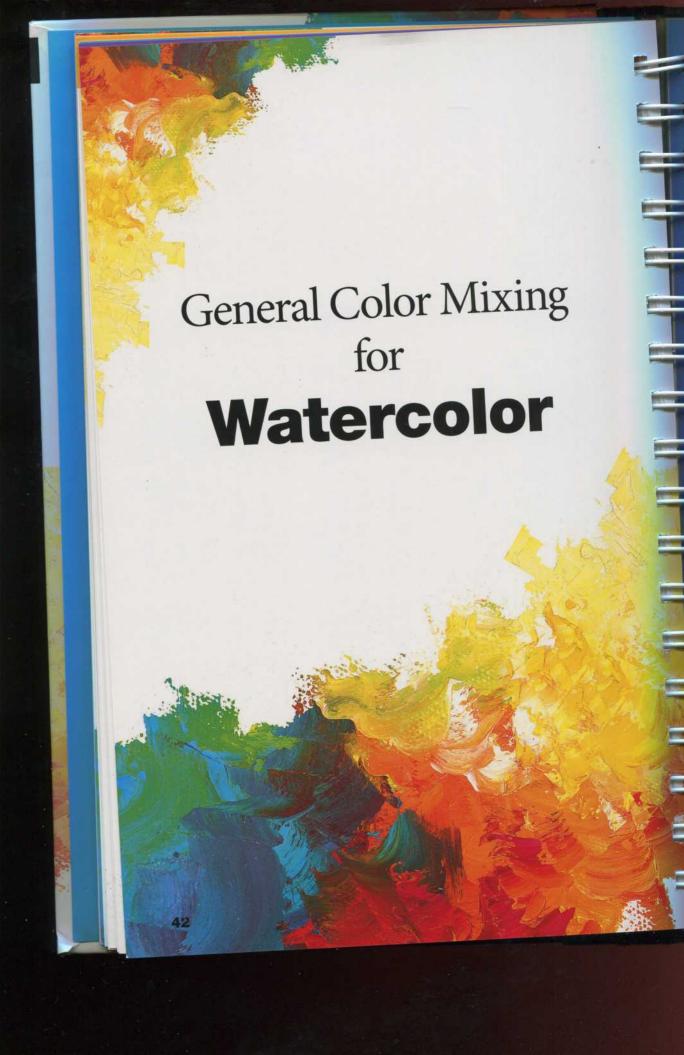






Coball

Notes



PaintColorsNeeded

Below you'll find all of the paint colors needed to create the color recipes in this section. Keep in mind that some color names will vary depending on the manufacturer. As you follow the recipes, you may also find that hues and strengths vary slightly from brand to brand, so you may need to adjust the recipes accordingly.

Burnt sienna

Burnt umber

Cadmium orange

Cadmium red light

Cadmium yellow

Cadmium yellow deep

Cadmium yellow light

Cadmium yellow medium

Cadmium yellow pale

Cerulean blue

Cobalt blue

Dioxazine violet

Gamboge

Hooker's green

Indian red

lvory black

Lemon yellow

Mauve

Naples yellow

Permanent alizarin crimson

Permanent rose

Phthalo blue

Raw sienna

Sap green

Ultramarine blue

Vermilion

Viridian green

Yellow ochre

General Color Mixing for Watercolor

Contents

•	Color Recipes45-65
	Value Recipes66-68
	Intensity Recipes69-70

COLORS USED

- Cadmium Yellow Light
- Cadmium Yellow Medium
- · Naples Yellow



1. 25% cadmium yellow light 75% Naples yellow Water Level 1



2. 95% cadmium yellow medium 5% Naples yellow Water Level 1



3. 100% cadmium yellow light Water Level 1



4. 25% cadmium yellow light 75% Naples yellow Water Level 1.5



5. 95% cadmium yellow medium 5% Naples yellow Water Level 1.5



6. 100% cadmium yellow light Water Level 1.5



7. 25% cadmium yellow light 75% Naples yellow Water Level 2



8. 95% cadmium yellow medium 5% Naples yellow Water Level 1.75



9. 100% cadmium yellow light Water Level 1.75



10. 25% cadmium yellow light 75% Naples yellow Water Level 2.5



11. 95% cadmium yellow medium 5% Naples yellow Water Level 2



12. 100% cadmium yellow light Water Level 2.5



13. 25% cadmium yellow light 75% Naples yellow Water Level 3



14. 95% cadmium yellow medium 5% Napies yellow Water Level 3



15. 100% cadmium yellow light Water Level 3

COLORS USED

- · Cadmium Yellow Light
- · Cerulean Blue
- Lemon Yellow



16. 90% cadmium yellow light 10% lemon yellow Water Level 2.5



17. 100% cadmium yellow light Water Level 3.5



18. 100% cadmium yellow light Water Level 5



19. 30% cadmium yellow light 65% lemon yellow 5% cerulean blue Water Level 2



20. 70% cadmium yellow light 15% temon yellow 15% cerulean blue Water Level 3



21.70% cadmium yellow light 20% lemon yellow 10% cerulean blue Water Level 2.5



22. 10% cadmium yellow light 65% lemon yellow 25% cerulean blue Water Level 2.5



23. 60% cadmium yellow light 15% lemon yellow 25% cerulean blue Water Level 3



24. 65% cadmium yellow light 5% lemon yellow 30% cerulean blue Water Level 3



25. 5% cadmium yellow light 70% lemon yellow 25% cerulean blue Water Level 3



26. 10% cadmium yellow light 60% lemon yellow 30% cerulean blue Water Level 3



27. 10% cadmium yellow light 70% lemon yellow 20% cerulean blue Water Level 3.5



28. 5% cadmium yellow light 65% lemon yellow 30% cerulean blue Water Level 3.5



29. 60% cadmium yellow light 5% lemon yellow 35% cerulean blue Water Level 3



30. 20% lemon yellow 80% cerulean blue Water Level 4

COLORS USED

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Real Property

Brut

Pin .

A.

- · Cadmium Yellow Light
- · Lemon Yellow
- · Phthalo Blue



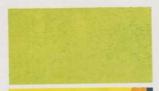
31. 65% lemon yellow 35% cadmium yellow light Water Level 1



32. 65% lemon yellow 35% cadmium yellow light Water Level 2



33. 65% lemon yellow 35% cadmium yellow light Water Level 3.5



34. 88% lemon yellow 10% cadmium yellow light 2% phthalo blue Water Level 2



35. 75% lemon yellow 20% cadmium yellow light 5% phthalo blue Water Level 2



36. 75% lemon yellow 20% cadmium yellow light 5% phthalo blue Water Level 2.5



37. 85% lemon yellow 10% cadmium yellow light 5% phthalo blue Water Level 2.5



38. 80% lemon yellow 15% cadmium yellow light 5% phthalo blue Water Level 2.5



39. 80% lemon yellow 15% cadmium yellow light 5% phthalo blue Water Level 3



40. 85% lemon yellow 10% cadmium yellow light 5% phthalo blue Water Level 3



41. 80% lemon yellow 10% cadmium yellow light 10% phthalo blue Water Level 3



42. 50% lemon yellow 35% cadmium yellow light 15% phthalo blue Water Level 3



43. 70% lemon yellow 10% cadmium yellow light 20% phthalo blue Water Level 3.5



44. 60% lemon yellow 10% cadmium yellow light 30% phthalo blue Water Level 4



45. 20% lemon yellow 30% cadmium yellow light 50% phthalo blue Water Level 4

- Cadmium Yellow Deep
- Cadmium Red Light
- · Cobalt Blue
- Gamboge

- Permanent Rose
- Raw Sienna
- · Viridian Green



46. 80% gamboge 20% raw sienna Water Level 1



47. 80% gamboge 20% raw sienna Water Level 2



48. 80% gamboge 20% raw sienna Water Level 3



49. 80% gamboge 19% raw sienna 1% viridian green Water Level 1



50. 80% gamboge 19% raw sienna 1% viridian green Water Level 2



51. 80% gamboge 19% raw sienna 1% viridian green Water Level 3



52. 98% gamboge 2% viridian green Water Level 1



53. 95% gamboge 5% viridian green Water Level 2



54. 90% gamboge 5% raw sienna 5% viridian green Water Level 3



55. 30% gamboge 68% viridian green 2% permanent rose Water Level 2.5



56. 35% cadmium yellow deep 60% viridian green 5% cadmium red light Water Level 3



57. 30% cadmlum yellow deep 60% viridian green 10% permanent rose Water Level 3



58, 20% cadmium yellow deep 60% viridian green 20% cobalt blue Water Level 3



59. 20% cadmium yellow deep 55% viridian green 25% cobalt blue Water Level 3



60. 20% cadmium yellow deep 55% viridian green 25% cobalt blue Water Level 4

- Burnt Umber
- Cadmium Orange
- Cadmium Red Light
- Cadmium Yellow Deep
- Cerulean Blue
- Naples Yellow
- Phthalo Blue
- Ultramarine Blue



61. 50% cadmium orange 50% cadmium red light Water Level 1



62. 50% cadmium orange 50% cadmium red light Water Level 2



63. 50% cadmium orange 50% cadmium red light Water Level 3



64. 40% cadmium orange 60% cadmium red light Water Level 1



65. 40% cadmium orange 60% cadmium red light Water Level 2



66. 30% cadmium orange 70% cadmium red light Water Level 2.5



67. 60% Naples yellow 30% cadmium orange 10% cerulean blue Water Level 2



68. 60% Naples yellow 25% cadmium orange 15% cerulean blue Water Level 3



69. 50% Naples yellow 10% cadmium orange 40% burnt umber Water Level 3



70. 30% cerulean blue 60% Naples yellow 10% cadmium orange Water Level 3



71. 60% cerulean blue 30% Naples yellow 7% cadmium orange 3% cadmium yellow deep Water Level 3



72. 60% cerulean blue 20% Naples yellow 10% ultramarine blue 10% cadmium yellow deep Water Level 3.5



73. 60% cerulean blue 40% cadmium yellow deep Water Level 3



74. 80% cerulean blue 15% cadmium orange 5% cadmium yellow deep Water Level 3



75. 80% cerulean blue 10% cadmium orange 10% phthalo blue Water Level 3

- · Burnt Sienna
- Burnt Umber
- Gamboge

- Lemon Yellow
- Phthalo Blue
- Raw Sienna



76. 85% gamboge 15% raw sienna Water Level 1



77. 80% raw sienna 20% burnt umber Water Level 2



78. 75% raw sienna 25% burnt umber Water Level 3



79. 80% gamboge 10% raw sienna 10% phthalo blue Water Level 1



80. 75% raw sienna 15% phthalo blue 10% gamboge Water Level 2



81. 65% raw sienna 15% burnt sienna 20% phthalo blue Water Level 3



82. 80% lemon yellow 10% raw sienna 10% phthalo blue Water Level 2



83. 60% lemon yellow 20% raw sienna 20% phthalo blue Water Level 3



84. 70% raw sienna 30% phthalo blue Water Level 3



85. 95% phthalo blue 5% lemon yellow Water Level 2



86. 90% phthalo blue 5% raw sienna 5% lemon yellow Water Level 3



87. 95% phthalo blue 5% raw sienna Water Level 4



88. 100% phthalo blue 2 drops lemon yellow Water Level 2



89. 100% phthalo blue 3 drops raw sienna Water Level 3



90. 100% phthalo blue Water Level 4

- COLORS USED
- Burnt Sienna
- Burnt Umber
- Lemon Yellow
- · Naples Yellow
- Phthalo Blue
- Yellow Ochre

- 91. 1 drop recipe #105 1 drop lemon yellow Water Level 1

- 92. 100% phthalo blue 1 drop yellow ochre Water Level 1
- 93. 98% phthalo blue 2% yellow ochre Water Level 1



94. 60% lemon yellow 40% recipe #105 Water Level 1



95. 90% phthalo blue 10% burnt sienna Water Level 2



96. 95% phthalo blue 5% burnt umber Water Level 2



97. 70% lemon yellow 30% recipe #105 Water Level 2



98. 60% phthalo blue 40% Naples yellow Water Level 2



99. 80% phthalo blue 20% burnt umber Water Level 3



100. 65% lemon yellow 35% recipe #105 Water Level 2

1

-



101. 65% phthalo blue 35% yellow ochre Water Level 3



102. 70% phthalo blue 30% burnt umber Water Level 3



103. 65% lemon yellow 35% recipe #105 Water Level 3



104. 80% phthalo blue 20% yellow ochre Water Level 4



105. 40% phthalo blue 60% burnt umber Water Level 4.5

- · Phthalo Blue
- Viridian Green



106. 75% viridian green 25% phthalo blue Water Level 1



107. 50% viridian green 50% phthalo blue Water Level 1



108. 100% phthalo blue Water Level 1



109. 80% viridian green 20% phthalo blue Water Level 2



110. 50% viridian green 50% phthalo blue Water Level 2



111. 100% phthalo blue Water Level 2



112. 85% viridian green 15% phthalo blue Water Level 2.5



113. 50% viridian green 50% phthalo blue Water Level 2.5



114. 100% phthalo blue Water Level 2.5



115, 85% viridian green 15% phthalo blue Water Level 3



116. 50% viridian green 50% phthalo blue Water Level 3



117. 100% phthalo blue Water Level 3



118. 90% viridian green 10% phthalo blue Water Level 3.5



119. 50% viridian green 50% phthalo blue Water Level 3.5



120. 100% phthalo blue Water Level 3.5

- · Cerulean Blue
- · Permanent Rose
- Ultramarine Blue
- Viridian Green



121. 100% cerulean blue Water Level 1



122. 60% cerulean blue 40% ultramarine blue Water Level 1



123. 100% ultramarine blue Water Level 1



124. 100% cerulean blue Water Level 2



125. 60% cerulean blue 40% ultramarine blue Water Level 2



126, 95% ultramarine blue 5% permanent rose Water Level 2



127. 98% cerulean blue 2% viridian green Water Level 2.5



128. 60% cerulean blue 40% ultramarine blue Water Level 3



129. 95% ultramarine blue 5% permanent rose Water Level 3



130. 95% cerulean blue 5% viridian green Water Level 3



131. 60% cerulean blue 40% uitramarine blue Water Level 3.5



132. 95% ultramarine blue 5% permanent rose Water Level 4



133. 90% cerulean blue 5% viridian green 5% ultramarine blue Water Level 4



134. 50% cerulean blue 50% ultramarine blue Water Level 4



135, 95% ultramarine blue 5% permanent rose Water Level 5

- · Burnt Umber
- · Permanent Alizarin Crimson
- · Ultramarine Blue



136. 100% ultramarine blue Water Level 1



137. 96% ultramarine blue 2% permanent alizarin crimson 2% burnt umber Water Level 2



138. 98% ultramarine blue 2% permanent alizarin crimson Water Level 3.5



139, 95% ultramarine blue 4% permanent alizarin crimson 1% burnt umber Water Level 1



140. 85% ultramarine blue 10% permanent alizarin crimson 5% burnt umber Water Level 2.5



141. 95% ultramarine blue 4% permanent alizarin crimson 1% burnt umber Water Level 2.5



142. 95% ultramarine blue 2% permanent alizarin crimson 3% burnt umber Water Level 2.5



143. 80% ultramarine blue 20% permanent alizarin crimson Water Level 2.5



144. 90% ultramarine blue 7% permanent alizarin crimson 3% burnt umber Water Level 2.5



145. 95% ultramarine blue 3% permanent alizarin crimson 2% burnt umber Water Level 3



146. 80% ultramarine blue 15% permanent alizarin crimson 5% burnt umber Water Level 3.5



147. 45% ultramarine blue 20% permanent alizarin crimson 35% burnt umber Water Level 4



148, 95% ultramarine blue 4% permanent alizarin crimson 1% burnt umber Water Level 4



149. 85% ultramarine blue 10% permanent alizarin crimson 5% burnt umber Water Level 4



150. 45% ultramarine blue 30% permanent alizarin crimson 25% burnt umber Water Level 5

COLORS USED

- · Cerulean Blue
- · Permanent Rose
- Ultramarine Blue



151. 80% ultramarine blue 20% cerulean blue Water Level 1



152. 60% ultramarine blue 30% cerulean blue 10% permanent rose Water Level 1



153. 75% ultramarine blue 15% cerulean blue 10% permanent rose Water Level 1



154, 80% ultramarine blue 20% cerulean blue Water Level 2

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155. 60% ultramarine blue 20% cerulean blue 20% permanent rose Water Level 2



156. 50% ultramarine blue 20% cerulean blue 30% permanent rose Water Level 2



157. 90% ultramarine blue 10% cerulean blue Water Level 2.5



158, 70% ultramarine blue 25% cerulean blue 5% permanent rose Water Level 2.5



159. 55% ultramarine blue 20% cerulean blue 25% permanent rose Water Level 2.5



160. 90% ultramarine blue 10% cerulean blue Water Level 3



161. 75% ultramarine blue 20% cerulean blue 5% permanent rose Water Level 3



162. 70% ultramarine blue 25% cerulean blue 5% permanent rose Water Level 3



163. 100% ultramarine blue Water Level 4



164. 75% ultramarine blue 20% cerulean blue 5% permanent rose Water Level 3



165. 80% ultramarine blue 15% cerulean blue 5% permanent rose Water Level 4

- · Cobalt Blue
- · Permanent Alizarin Crimson
- · Permanent Rose
- · Ultramarine Blue



166. 60% cobalt blue 40% permanent alizarin crimson Water Level 1



167. 35% cobalt blue 65% permanent alizarin crimson Water Level 1



168. 25% ultramarine blue 75% permanent rose Water Level 1



169. 65% cobalt blue 35% permanent alizarin crimson Water Level 2



170. 40% cobalt blue 60% permanent alizarin crimson Water Level 2



171, 25% ultramarine blue 75% permanent rose Water Level 2



172. 75% cobalt blue 25% permanent alizarin crimson Water Level 2.5



173. 40% cobalt blue 60% permanent alizarin crimson Water Level 3



174. 25% ultramarine blue 75% permanent rose Water Level 2.5



175. 75% cobalt blue 25% permanent alizarin crimson Water Level 3



176. 45% cobait blue 55% permanent alizarin crimson Water Level 3



177. 25% ultramarine blue 75% permanent rose Water Level 3



178. 80% cobalt blue 20% permanent alizarin crimson Water Level 3.5



179. 50% cobalt blue 50% permanent alizarin crimson Water Level 3.5



180. 30% ultramarine blue 70% permanent rose Water Level 3.5

- · Cobalt Blue
- · Permanent Alizarin Crimson
- · Permanent Rose



181. 100% permanent rose 2 drops cobalt blue Water Level 2



182. 100% permanent rose Water Level 1



183. 99% permanent alizarin crimson 1% permanent rose Water Level 1



184. 100% permanent rose 2 drops cobalt blue Water Level 2,5



185. 100% permanent rose Water Level 2



186. 65% permanent alizarin crimson 35% permanent rose Water Level 2



187. 100% permanent rose 3 drops cobalt blue Water Level 3



188. 100% permanent rose Water Level 3



189. 55% permanent alizarin crimson 45% permanent rose Water Level 3



190. 90% permanent rose 6% permanent alizarin crimson 4% cobalt blue Water Level 2



191. 100% permanent rose Water Level 3.5



192. 50% permanent alizarin crimson 50% permanent rose Water Level 3.5



193. 80% permanent rose 15% permanent alizarin crimson 5% cobalt blue Water Level 4



194. 100% permanent rose Water Level 4



195. 60% permanent alizarin crimson 40% permanent rose 1 drop cobalt blue Water Level 4

- Burnt Umber
- Burnt Sienna
- Indian Red



196. 100% Indian red Water Level 1



197. 100% burnt umber Water Level 1



198. 100% burnt sienna Water Level 1



199. 100% Indian red Water Level 2



200. 100% burnt umber Water Level 2



201. 100% burnt sienna Water Level 2



202. 100% Indian red Water Level 3



203. 100% burnt umber Water Level 3



204. 100% burnt sienna Water Level 3



205. 100% Indian red Water Level 4



206. 100% burnt umber Water Level 4



207. 100% burnt sienna Water Level 4



208, 100% Indian red Water Level 5



209. 100% burnt umber Water Level 5



210. 100% burnt sienna Water Level 5

- Cadmium Yellow
- · Permanent Alizarin Crimson



211. 100% permanent alizarin crimson Water Level 1



212. 100% permanent alizarin crimson Water Level 3



213. 100% permanent alizarin crimson Water Level 5



214. 80% permanent alizarin crimson 20% cadmium yellow Water Level 2



215. 85% permanent alizarin crimson 15% cadmium yellow Water Level 3



216. 85% permanent alizarin crimson 15% cadmium yellow Water Level 5



217. 40% permanent alizarin crimson 60% cadmium yellow Water Level 2.5



218. 45% permanent alizarin crimson 55% cadmium yellow Water Level 3



219. 50% permanent alizarin crimson 50% cadmium yellow Water Level 5



220, 15% permanent alizarin crimson 85% cadmium yellow Water Level 2.5



221. 40% permanent alizarin crimson 60% cadmium yellow Water Level 3



222. 35% permanent alizarin crimson 65% cadmium yellow Water Level 5



223. 3% permanent alizarin crimson 97% cadmium yellow Water Level 3



224. 5% permanent alizarin crimson 95% cadmium yellow Water Level 3



225. 10% permanent alizarin crimson 90% cadmium yellow Water Level 5

- · Cadmium Red Light
- Vermilion
- Yellow Ochre



226. 100% vermilion Water Level 1



227. 100% cadmium red light Water Level 1



228. 65% cadmium red light 35% yellow ochre Water Level 1



229. 100% vermilion Water Level 2



230. 100% cadmium red light Water Level 2



231. 65% cadmium red light 35% yellow ochre Water Level 2



232. 100% vermilion Water Level 3



233. 100% cadmium red light Water Level 3



234. 65% cadmium red light 35% yellow ochre Water Level 3



235. 100% vermilion Water Level 4



236. 100% cadmium red light Water Level 4



237. 65% cadmium red light 35% yellow ochre Water Level 4



238. 100% vermilion Water Level 5



239. 100% cadmium red light Water Level 5



240. 65% cadmium red light 35% yellow ochre Water Level 5

- · Cadmium Red Light
- · Lemon Yellow



241. 100% cadmium red light Water Level 1



242. 100% cadmium red light Water Level 3



243. 100% cadmium red light Water Level 4



244. 70% cadmium red light 30% lemon yellow Water Level 2



245. 80% cadmium red light 20% lemon yellow Water Level 3



246. 75% cadmium red light 25% lemon yellow Water Level 3.5



247. 45% cadmium red light 55% lemon yellow Water Level 2



248. 60% cadmium red light 40% lemon yellow Water Level 3



249. 65% cadmium red light 35% lemon yellow Water Level 3.5



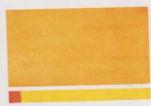
250. 25% cadmium red light 75% lemon yellow Water Level 2



251. 35% cadmium red light 65% lemon yellow Water Level 3



252. 40% cadmium red light 60% lemon yellow Water Level 3.5



253. 10% cadmium red light 90% lemon yellow Water Level 2



254. 15% cadmium red light 85% lemon yellow Water Level 3



255. 20% cadmium red light 80% lemon yellow Water Level 3.5

- Cadmium Orange
- Lemon Yellow
- Naples Yellow



256. 100% cadmium orange Water Level 2



257. 100% cadmium orange Water Level 3



258. 100% cadmium orange Water Level 5



259. 60% lemon yellow 40% cadmium orange Water Level 2



260. 45% lemon yellow 55% cadmium orange Water Level 3



261. 55% lemon yellow 45% cadmium orange 1 drop Naples yellow Water Level 4



262. 80% lemon yellow 20% cadmium orange Water Level 2



263. 90% lemon yellow 10% cadmium orange Water Level 3



264, 75% lemon yellow 25% cadmium orange 1 drop Naples yellow Water Level 4



265. 100% lemon yellow 2 drops cadmium orange Water Level 2



266. 100% lemon yellow 3 drops cadmium orange Water Level 3



267. 85% lemon yellow 15% cadmium orange 1 drop Naples yellow Water Level 3.5



268. 100% lemon yellow 1 drop cadmium orange Water Level 2



269. 100% lemon yellow 2 drops cadmium orange Water Level 3



270. 95% lemon yellow 5% cadmium orange 1 drop Naples yellow Water Level 3

- COLORS USED
- · Cadmium Orange
- Cadmium Red Light
- Sap Green
- Viridian Green



271. 75% cadmium orange 25% cadmium red light Water Level 2



272. 75% cadmium orange 25% cadmium red light Water Level 3



273. 75% cadmium orange 25% cadmium red light Water Level 4



274. 100% recipe #271 1 drop viridian green Water Level 2



275. 40% cadmium red light 35% sap green 20% viridian green 5% cadmium orange Water Level 2.5



276. 35% cadmium red light 35% sap green 30% viridian green Water Level 3



277. 50% sap green 50% recipe #274 Water Level 2



278. 20% cadmium red light 35% sap green 35% viridian green 10% cadmium orange Water Level 3



279. 25% cadmium red light 35% sap green 40% viridian green Water Level 3



280. 70% sap green 10% viridian green 20% cadmium orange Water Level 2



281. 15% cadmium red light 40% sap green 25% viridian green 20% cadmium orange Water Level 3



282. 15% cadmium red light 50% sap green 35% viridian green Water Level 3.5



283. 70% sap green 5% viridian green 25% cadmium orange Water Level 2



284. 90% recipe #280 10% viridian green Water Level 3



285. 85% recipe #282 10% viridian green 5% cadmium orange Water Level 4

- Phthalo Blue
- · Ultramarine Blue
- · Yellow Ochre



286. 100% yellow ochre Water Level 1



287. 100% yellow ochre 1 drop ultramarine blue Water Level 1



288. 70% yellow ochre 20% ultramarine blue 10% phthalo blue Water Level 1



289. 100% yellow ochre Water Level 2



290. 50% yellow ochre 50% ultramarine blue 1 drop phthalo blue Water Level 2



291. 70% yellow ochre 25% ultramarine blue 5% phthalo blue Water Level 2



292. 100% yellow ochre Water Level 2.5



293. 50% yellow ochre 50% ultramarine blue 2 drops phthalo blue Water Level 2.5



294. 70% yellow ochre 25% ultramarine blue 5% phthalo blue Water Level 3



295. 100% yellow ochre Water Level 3



296. 65% yellow ochre 35% ultramarine blue Water Level 3



297. 75% yellow ochre 23% ultramarine blue 2% phthalo blue Water Level 3



298. 100% yellow ochre Water Level 4



299. 65% yellow ochre 35% ultramarine blue Water Level 4



300. 70% yellow ochre 30% ultramarine blue Water Level 4

- Burnt Sienna
- Cadmium Red Light
- Naples Yellow
- · Yellow Ochre



301. 100% Naples yellow Water Level 1



302. 100% Naples yellow 1 drop cadmium red light Water Level 1



303. 100% Naples yellow 1 drop cadmium red light 1 drop burnt sienna Water Level 1



304. 100% Naples yellow Water Level 2



305. 100% Naples yellow 2 drops cadmium red light Water Level 2



306. 100% Naples yellow 2 drops cadmium red light 2 drops burnt sienna Water Level 2.5



307. 100% Naples yellow Water Level 2.5



308. 95% Naples yellow 5% cadmium red light 1 drop burnt sienna Water Level 2.5



309. 90% Naples yellow 5% burnt sienna 5% yellow ochre Water Level 3



310. 100% Naples yellow 1 drop burnt sienna Water Level 3



311. 90% Naples yellow 5% cadmium red light 5% yellow ochre 1 drop burnt sienna Water Level 3.5



312. 80% Naples yellow 10% burnt sienna 10% yellow ochre Water Level 4



313. 98% Naples yellow 2% burnt sienna Water Level 3.5



314. 95% Naples yellow 2% cadmium red light 3% burnt sienna Water Level 4

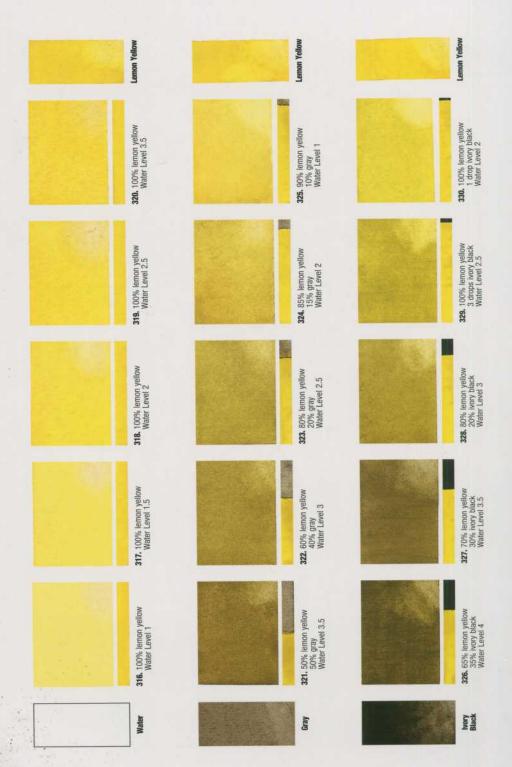


315, 60% Naples yellow 30% burnt sienna 10% yellow ochre Water Level 4

ValueRecipes

COLORS USED

- Ivory Black
- Lemon Yellow



THE CALL CALL

CME

ValueRecipes

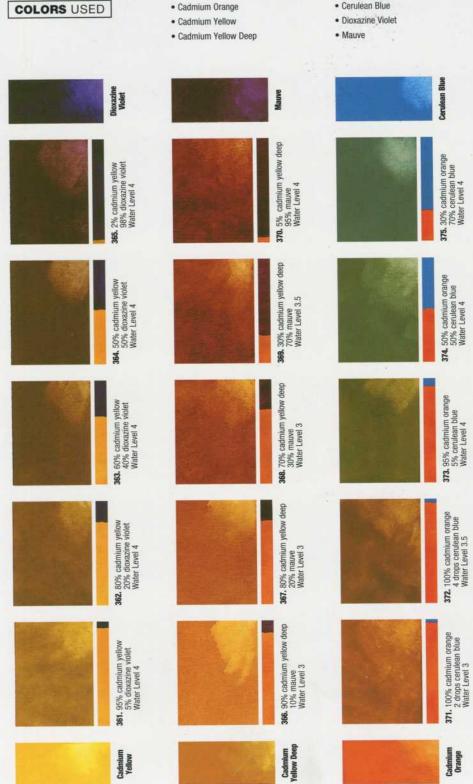
COLORS USED

and and

- Cadmium Red Light
- Ivory Black



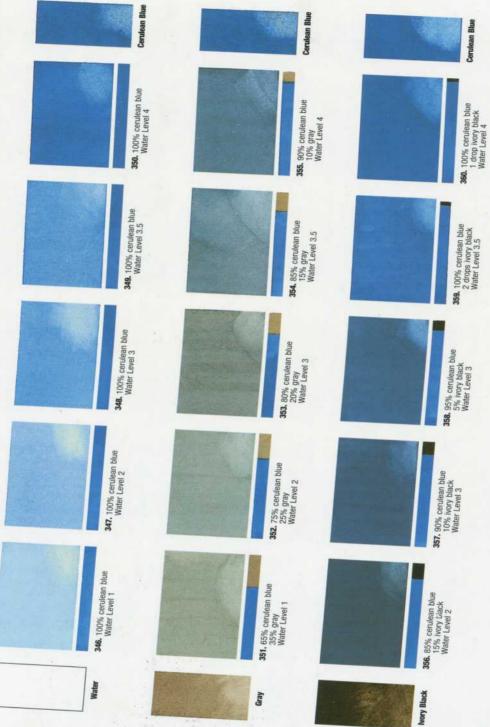
· Cerulean Blue



ValueRecipes

COLORS USED

- Cerulean Blue
- Ivory Black

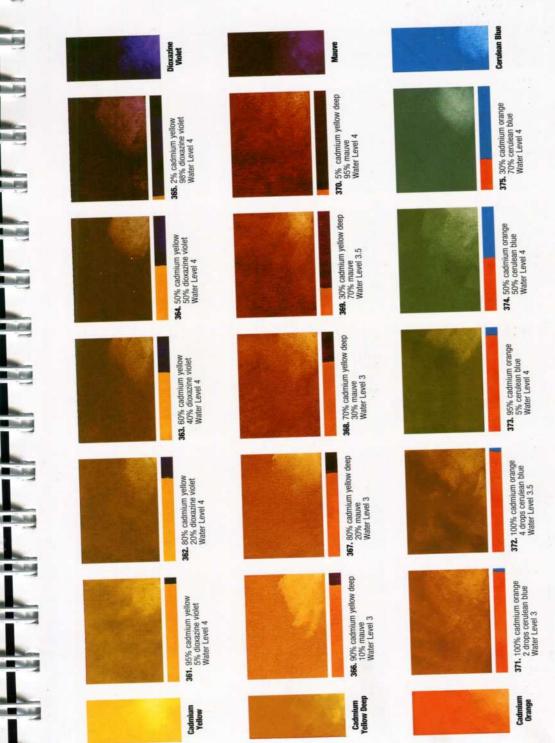




C

COLORS USED

- Cadmium Orange
- Cadmium Yellow
- · Cadmium Yellow Deep
- Cerulean Blue
- Dioxazine Violet
- Mauve



COLORS USED

nes

- · Cadmium Orange
- · Cadmium Yellow
- · Cadmium Yellow Deep
- Cerulean Blue
- Dioxazine Violet
- Mauve



Cadmium

Cadmium Yellow Deep

375, 30% cadmium orange 70% cerulean blue Water Level 4

374, 50% cadmium orange 50% cerulean blue Water Level 4

COLORS USED

- · Cadmium Red Light
- · Cadmium Yellow Pale
- · Dioxazine Violet
- · Hooker's Green
- · Perm. Alizarin Crimson
- Sap Green





Sap Green





380, 1 drop cadmium red light 100% Hooker's green Water Level 3.5



385. 1 drop permanent alizarin crimson 100% sap green Water Level 3



390, 1 drop dioxazine violet 100% cadmium yellow pale Water Level 4



379. 3 drops cadmium red light 100% Hooker's green Water Level 3.5



384, 2 drops permanent alizarin crimson 100% sap green Water Level 3



389. 2 drops dioxazine violet 100% cadmium yellow pale Water Level 4



378. 60% cadmium red light 40% Hooker's green Water Level 3.5

377. 100% cadmium red light 2 drops Hooker's green Water Level 3.5

376. 100% cadmium red light 1 drop Hooker's green Water Level 3.5

Cadmium Red Light



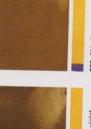
383. 3 drops permanent alizarin crimson 100% sap green Water Level 3 382, 15% permanent alizarin crimson 85% sap green Water Level 3.5

381, 25% permanent alizarin crimson 75% sap green Water Level 4

Permanent Alizarin Crimson



388. 5% dioxazine violet 95% cadmium yellow pale Water Level 4



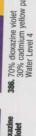














Notes

in the

Color Mixing for **Portraits**

PaintColorsNeeded

Below you'll find all the paint colors needed to create the skin, eye, lip, and hair color tones in this section. Keep in mind that some color names will vary depending on the manufacturer, and some of these oil colors aren't available in acrylic and therefore must be mixed. (See the Oil/Acrylic Conversion Chart on page 174 for color equivalents.) As you follow the recipes, you may also find that hues and strengths vary slightly from brand to brand, so you may need to adjust the recipes accordingly.

OIL/ACRYLIC Alizarin crimson **Burnt sienna Burnt umber** Cadmium orange Cadmium red light Cadmium vermilion Cadmium yellow light Cadmium yellow medium Cerulean blue hue Chrome oxide green (chromium oxide green in acrylic) Cobalt blue lvory black (abbreviated "black" throughout) Naples yellow hue Phthalo red rose (abbreviated "phthalo red" throughout) (can be substituted with quinacridone red) Raw sienna Raw umber Titanium white (abbreviated "white" throughout) Ultramarine blue

Venetian red Viridian green Yellow ochre

Zinc yellow

WATERCOLOR **Burnt sienna Burnt umber** Cadmium orange Cadmium red light Cerulean blue hue **Cobalt blue** Hooker's green deep lvory black (abbreviated "black" throughout) Lemon yellow -New gamboge (avoid substituting with gamboge; substitute with Indian yellow if necessary) Permanent alizarin crimson (abbreviated "alizarin crimson" throughout) Permanent rose Raw sienna Sap green Sepia **Ultramarine** blue Viridian green Yellow ochre

NOTE: We have abbreviated some of the color names, such as using "black" in place of "ivory black," as mentioned above. However, it is important that you use the exact color names listed to mix the recipes. For example, ivory black is a warm black, so substituting this color for a cooler lamp black would change the dynamic of the color mixture. This applies to titanium white as well; avoid substituting this color for a cooler variety, such as zinc white.

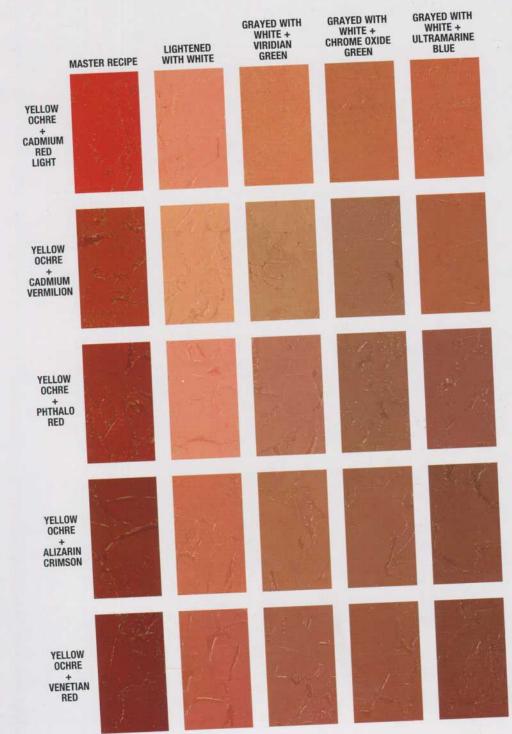
Color Mixing for Portraits

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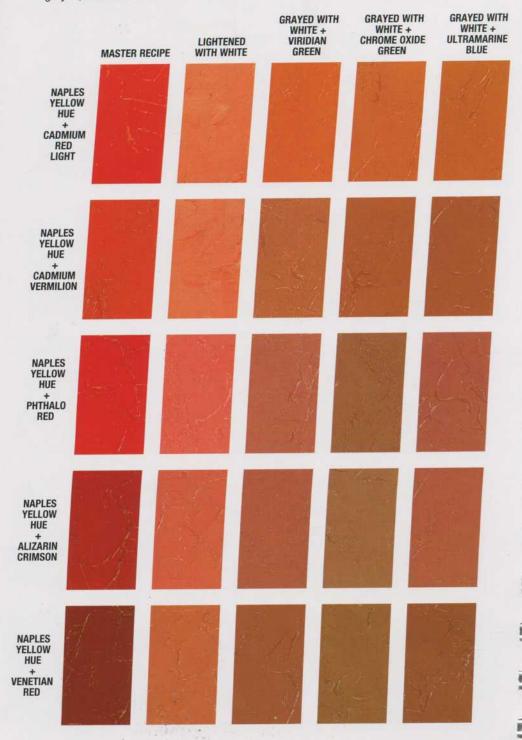
SkinTonePalettes BASIC MIXES

Yellow ochre is the most common color used in basic skin tone palettes. The samples below show yellow ochre mixed with different reds. First create a master recipe to the desired yellow or red tone. The recipe can be lightened, darkened, grayed, or intermixed.



SkinTonePalettes BASIC MIXES

Naples yellow hue is a light, warm yellow that also mixes well with reds for skin tone palettes. The samples below show Naples yellow hue mixed with different reds. First create a master recipe to the desired yellow or red tone. The recipe can be lightened, darkened, grayed, or intermixed.



Gra As show

"grayed tinted, to Colors d another, "direct co have the other. Wh colors, the The mixtu cadmium can be gracomplement."

Naples yellow hue



Cadmium red light

White + Cadmium red li



Cadmium Vermilion

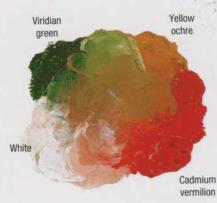


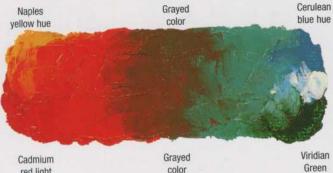
Burnt Sienna

Graying Skin Tones Naturally

As shown on page 9, a color cannot be "grayed" using black or white-it can be only tinted, toned, or shaded.

Colors directly across the color wheel from each another, such as red and green, are known as "direct complements." Direct complements have the ability to neutralize or "gray" each other. When you mix two direct complementary colors, the result is a natural, neutral color. The mixture at right shows yellow ochre and cadmium vermilion mixed for a skin tone that can be grayed with viridian green (vermilion's complement) or tinted with white.

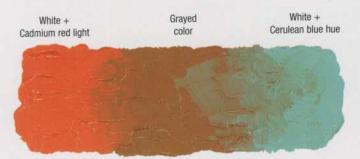




red light

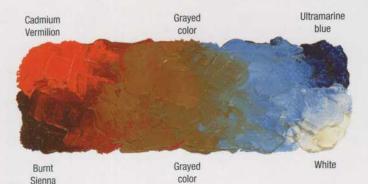
color

WHITE



As you mix skin tones, it's a good idea to make test "smearings" to find the best mixtures. The sample at left shows cerulean blue hue mixed with viridian green and white, producing a soft blue-green. Combining these with the skin tone recipe of Naples yellow hue and cadmium red light yields a beautiful, natural gray of each.

This example shows two colors (cadmium red light and cerulean blue hue) that have been tinted with white. Even though these colors are tinted, they still remain complementary to each other. Notice the beautiful grayed color in the center created by mixing the two colors.



Here you see a light, cool blue (ultramarine) mixed with a warm reddish-orange mix of burnt sienna and cadmium vermilion. Orange and blue are direct complements, so they gray each other well. Notice the graduations of grayed colors in the center of this sample.

SearchingForAdditionalSkinTon

BASIC PALETTES

If your model's skin color doesn't match any palettes in this section, you can use the color mixes on these pages as a base for mixing the exact tone you need. Start with any mix and lighten, darken, or gray as indicated below until you achieve the desired color.

To Lighten Add other, lighter skin tones, or try adding white to colors like zinc yellow, cadmium yellow light, Naples yellow hue, or cadmium orange.

To Darken Add other, darker skin tones, or try adding burnt umber, burnt sienna, alizarin crimson, ultramarine blue, or mixtures of the above colors. To shade a tone, add a touch of black.

To Gray Add one or more of the following colors: white plus ultramarine blue, chrome oxide green, cadmium yellow light, cerulean blue hue, or cadmium orange. Also add a complementary color: If the tone is red, add green; if yellow, add purple.

1. MEDIUM MIX



Yellow ochre + Cadmium red light

2. LIGHT MIX



Naples yellow hue + Cadmium red light

3. RUDDY MIX



Burnt sienna + Cadmium red light

4. MEDIUM-DARK MIX



Raw sienna + Cadmium vermilion

5. DARK MIX



Burnt umber + Cadmium vermilion

Modifying Colors

The two mixtures at right, modifying colors, can be used to tone down light flesh colors, to deepen and bronze reddish colors, and to warm or cool shadow

1. COOL PURPLE MIX



ALIZARIN CRIMSON + VIRIDIAN GREEN + WHITE

2. WARM PURPLE MIX

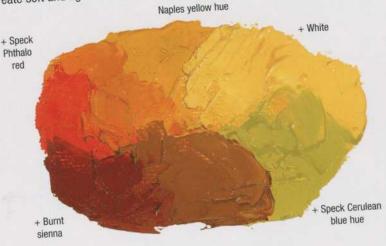


ALIZARIN CRIMSON + WHITE + BURNT UMBER + VIRIDIAN GREEN

Searching For Additional Skin Tones

The combination of colors below can be used as a base for fair or delicate skin tones. You FAIR SKIN TONES can create many skin tones using this palette. Phthalo red is the key color here—mix it with white to produce pink, or add white and the other colors shown to change the value. Gray or warm the mixes to create soft and light flesh tones.

Try to keep the colors delicate and not too harsh or pure. Play with these colors first, and then develop some original palettes. (Note: When painting a flesh color, never use any red in its pure state.)



Raw

BLACK TO BRONZE TONES

The palette at right is a base for skin tones that range in hue from black to bronze. Manipulate the colors to create a wide variety of skin tones. Note that some black skin tones have a rich, warm undertone; others are delicately cool. Also take note of subtle colors that can appear under various lighting; look for delicate colors in the shadows and lively tints in the light areas. Depending on the model, shadows can be warm, cool, or even purple or green.

LIGHT BRONZE TO YELLOW TONES

You can use this palette as a base for skin tones that range in hue from light bronze to yellow. The more burnt sienna and red in the mix, the more bronze the color will be. Adding more yellow ochre moves the mix toward yellow tones. You can lighten these mixes with a bit of white, but be careful when adding white to darker tones, as it can make them appear milky. Adding a speck of Venetian red will warm the colors. Experiment and remember that these introductory colors can lead to an endless number of skin tone palettes.

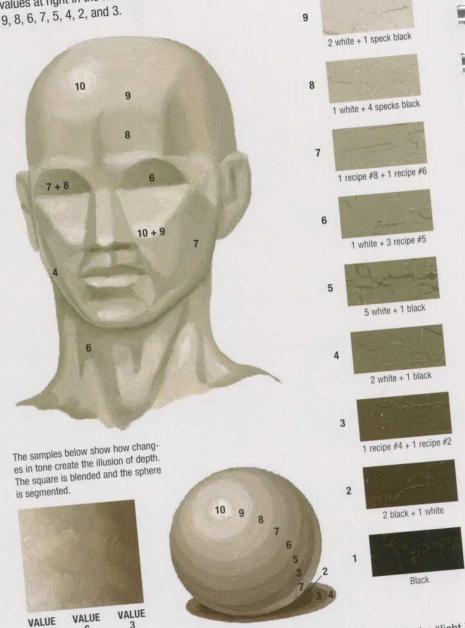


Burnt

umber

FacialPlanes

Variations in value create form and the illusion of depth, so it's important to learn to control these values. Comparing tonal values of black and white to color tones is a helpful exercise. Start with pure white and pure black at the two ends of your value scale; then mix the sample values at right in the following order to obtain a smooth graduation: 9, 8, 6, 7, 5, 4, 2, and 3.



TONAL VALUES

White

10

I use a value scale based on the Munsell Value System, with 10 representing white (or "light," a combination of all colors created by light), graduating to 1, or black (the absence of light and color). Some artists reverse these numbers. I painted the head study above from an artist's wooden mannequin; I have placed a few references on it as a visual guide to the scale.

FacialPlanes

COLOR VALUES

Page 84, recipe #11

Seeing the value of colors is crucial to creating realistic forms. Tonal value scales, like the one on page 80, also are wonderful guides for comparing color values. For your reference, the colors in this scale are numbered to match their corresponding gray values on the other scale. The colors featured on this page are from the palette on page 84.



9

Page 84, recipe #2



Page 84, recipe #3



Page 84, recipe #4



6

Page 84, recipe #5



Page 84, recipe #6



Page 84, recipe #7

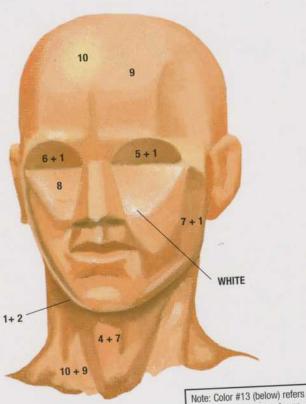


Page 84, recipe #8





Page 84, recipe #10



The samples below show how changes in value create the illusion of depth. The square is blended and the sphere is segmented.



COLOR COLOR COLOR

to the cool shadow color on page 84.

WHITE-

Notice that the color value number placements on this head study vary slightly from the grayscale study on page 80. This is because different skin tone palettes vary in value and tone from warm and cool to creamy and bronze. Due to these differences, use the value scale as a reference, not an absolute. Some palettes may relate only to limited portions of the scale; nonetheless, the scale is a great guide for color tone control. Study each palette and relate each color to a value on the scale.

MouthColorTones

WARM AND COOL AREAS IN AND AROUND THE MOUTH

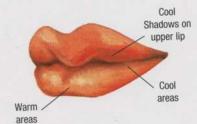
The skin is thinner on the mouth and blood is closer to the surface, making this area redder than other areas of skin. At times, areas in and around the mouth can appear to be warmer than the rest of the face, as weather and emotions can flush the lips.

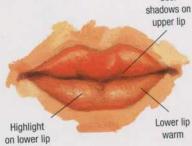
The upper lip is usually more shadowed than the lower lip, and it casts a shadow on the top of the lower lip. The mixtures shown on this page work as ideal basic lip color mixes that can be darkened, lightened, or grayed, depending on the model. Cool



1. Warming Color

- 3 yellow ochre +
- 2 cadmium red light + 1 speck alizarin crimson





Add Venetian red and white to soften the lip colors where needed. Keep highlights soft to prevent the lips from appearing shiny. The highlight on the lower lip should be the lightest light.



2. Warm Shadow

- 1 burnt umber +
- 1 alizarin crimson +
- 1 cadmium red light

Alter these mixes using a master skin tone recipe plus white, burnt sienna, Naples yellow hue, and cobalt blue; add Venetian red and burnt umber to deepen.





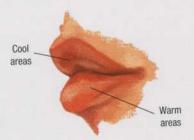
3. Cool Shadow

- 2 alizarin crimson +
- 1 ultramarine blue



4. Lightening Color

- 2 white -
- 1 speck Naples yellow hue



Varying edge lines add life to the mouth. Some lines are soft and "lost," whereas others are hard and definite. Use alizarin crimson and burnt umber for the deep shadows at the corners. Add specks of ultramarine blue and alizarin crimson for cooler purple shadows. For lower lip highlights, use a pale pink with the lightening color and different reds. White plus Venetian red makes a nice natural pink. The lightening color plus any pink can make an effective lip highlight. White plus alizarin crimson makes a cool pink, whereas white plus a speck of cadmium red light creates a warm pink. Remember to keep all value changes subtle for a realistic look.

Ear/NoseColorTones

WARM AND COOL AREAS IN AND AROUND THE EARS AND NOSE

Many delicate color changes can take place in the creases and curves of the ears and nose. The tops of the ears can become red with the flow of blood, whereas the nose can become red at the tip. The following basic mixes can be deepened or lightened, depending on the model.



Colors selected for these warmer areas should be muted in intensity. Cadmium red light is very bright if used too strongly. Cadmium vermilion and Venetian red are more muted and will tone down the color. If shadow colors become too strong, gray them with a speck of burnt umber, ultramarine blue, viridian green, or chrome oxide green. As with the mouth, use a variety of reds for different tones. Keep purple mixes for the shadows delicate and not too strong—or they will give a bruised appearance. Colors used in the mouth, ears, and nose must be harmonious with the flesh tone of the subject. Simply use these basic mixes to manipulate the overall skin tones.



The placement of the mouth, eyes, nose, and ears in relationship to one another on the cranial mass is of the utmost importance. Even the slightest variation of a feature's position can change the expression of the portrait. Any slight misplacement will also change the features of the subject enough to lose the likeness. Study the subject closely and take note of even the subtlest tone changes in the flesh of the ears, nose, and mouth.

COLORS USED

- Burnt Sienna
- · Cadmium Red Light
- · Ivory Black
- · Naples Yellow Hue
- Raw Umber • Titanium White
- · Viridian Green
- · Yellow Ochre

- Mix until the color matches the Master Skin Tone Recipe shown at right.
- 1. 3 cadmium red light 2 yellow ochre



MASTER SKIN TONE RECIPE



LIGHT VALUES



2. 2 white 1 speck master recipe 1 speck Naples yellow hue





5. 8 white 1 master recipe

DARK/GRAYED VALUES



8. 3 white 1 master recipe 1 recipe #12



3. 1 white 3 specks master recipe 1 speck Naples yellow hue



6. 6 white 1 master recipe



9. 2 white 1 master recipe 1 recipe #12 1 speck recipe #14



4. 10 white 1 master recipe



7. 5 white 2 master recipe 2 specks recipe #12



10. 1 white 1 master recipe 1 recipe #13 1 speck recipe #14

HIGHLIGHT VALUE



11. 1 white 2 specks Naples yellow hue

WARM SHADOW



12. 4 burnt sienna 1 white 1 master recipe

COOL SHADOW



13. 4 raw umber 1 white 1 master recipe



14. 2 viridian green 1 white 1 speck black

COLORS USED

- · Burnt Umber
- · Cadmium Red Light
- Cerulean Blue Hue
- Naples Yellow Hue
- · Titanium White
- Venetian Red
- · Yellow Ochre

Mix until the color matches the Master Skin Tone Recipe shown at right.

1. 5 cadmium red light 2 yellow ochre 3 white



MASTER SKIN TONE RECIPE



LIGHT VALUES



2. 9 white 1 Naples yellow hue





5. 5 white 3 recipe #2 2 specks cadmium red light 1 speck master recipe



DARK/GRAYED VALUES

- 8. 7 white 2 master recipe 1 recipe #14 1 speck recipe #13



1 speck Venetian red



6. 6 white 1 recipe #2 1 masterrecipe 4 specks cadmium red light



9. 5 recipe #8 1 master recipe 2 specks recipe #13



4. 13 recipe #2 1 master recipe



7. 4 recipe #5 3 specks Venetian red 1 speck master recipe



10. 5 recipe #9 1 recipe #12 1 recipe #14

HIGHLIGHT VALUE



11. 2 white 1 speck cadmium red light

WARM SHADOW



12. 4 recipe #2 2 master recipe 1 Venetian red 1 burnt umber

COOL SHADOW



13. 2 master recipe 1 burnt umber



14. 4 white 1 cerulean blue hue

COLORS USED

- · Alizarin Crimson
- · Cadmium Red Light
- Raw Sienna
 Titanium White
- Viridian Green

Mix until the color matches the Master Skin Tone Recipe shown at right.

1.1 raw sienna 3 white



MASTER SKIN TONE RECIPE



LIGHT VALUES



2. 5 white 1 master recipe

MIDDLE VALUES



5. 1 white 1 master recipe 2 specks recipe #12

DARK/GRAYED VALUES



8. 3 recipe #7 1 recipe #14



3. 5 recipe #2 3 specks cadmium red light



6. 3 white 5 master recipe 1 recipe #12



9. 2 recipe #7 1 recipe #12 3 recipe #14 2 specks recipe #13



4. 1 recipe #3 1 speck alizarin crimson



7. 6 recipe #6



10. 5 recipe #9 3 recipe #13 1 speck raw sienna

HIGHLIGHT VALUE



11. 1 white 3 specks master recipe

WARM SHADOW



12. 1 raw sienna 1 alizarin crimson

COOL SHADOW



13. 1 raw sienna 1 alizarin crimson 1 viridian green



14. 3 white 1 viridian green

COLORS USED

- Burnt Umber
- · Cobalt Blue
- Ivory Black
- · Naples Yellow Hue
- · Phthalo Red
- Titanium White
- Viridian Green

Mix until the color matches the Master Skin Tone Recipe shown at right.

1. 3 Naples yellow hue 1 phthalo red



MASTER SKIN TONE RECIPE



LIGHT VALUES



2. 2 white 1 speck master recipe 1 speck Naples yellow hue





5. 5 recipe #3 1 recipe #14 DARK/GRAYED VALUES



8. 1 master recipe 1 viridian green 1 recipe #11



3. 6 white 1 master recipe



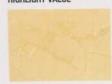
- 6. 7 white 1 master recipe 2 Naples yellow hue 1 recipe #12
- 9. 1 master recipe 1 recipe #13 1 recipe #14



- 4. 6 white 1 master recipe 1 Naples yellow hue
- 7. 5 white 2 master recipe 1 Naples yellow hue 3 specks burnt umber
- 10, 3 master recipe 1 white 2 recipe #13



HIGHLIGHT VALUE



11. 3 white 1 speck Naples yellow hue 1 tiny speck phthalo red

WARM SHADOW



12. 1 burnt umber 1 Naples yellow hue 1 phthalo red 2 white

COOL SHADOW

13. 3 master recipe 1 viridian green

GRAYING COLOR



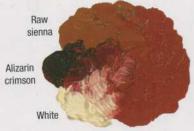
14, 4 white 1 cobalt blue 1 speck black

COLORS USED

- · Alizarin Crimson
- Burnt Sienna
- Burnt Umber
- · Cerulean Blue Hue
- · Naples Yellow Hue
- Raw Sienna
- . Titanium White
- Viridian Green

Mix until the color matches the Master Skin Tone Recipe shown at right.

1. 1 raw sienna 1 alizarin crimson 1 white



MASTER SKIN TONE RECIPE



LIGHT VALUES

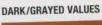


2. 2 white 1 speck raw sienna

MIDDLE VALUES



5. 3 white 1 master recipe 2 specks raw sienna





8. 6 master recipe 3 white 2 recipe #13



3. 3 white 1 speck Naples yellow hue 1 speck master recipe



6. 3 recipe #5 1 recipe #12



9. 3 recipe #8 1 recipe #14



4. 9 white 1 master recipe 2 specks raw sienna



7. 3 recipe #5 1 burnt sienna 1 alizarin crimson 2 specks burnt umber



2 master recipe
 3 burnt umber
 1 burnt sienna
 1 alizarin crimson

HIGHLIGHT VALUE



11. 1 white 1 speck Naples yellow hue

WARM SHADOW



12. 3 master recipe 1 burnt umber

COOL SHADOW



13. 3 master recipe 2 viridian green



14. 1 cerulean blue hue 1 viridian green 1 white

COLORS USED

- Burnt Sienna
- · Cadmium Orange
- · Cadmium Red Light
- Cadmium Vermilion
- · Cadmium Yellow Medium
- · Cerulean Blue Hue
- Raw Sienna
- Titanium White
- · Viridian Green

Mix until the color matches the Master Skin Tone Recipe shown at right.

1. 5 raw sienna 2 cadmium red light



MASTER SKIN TONE RECIPE



LIGHT VALUES



2. 2 white 1 speck master recipe 2 specks recipe #11

MIDDLE VALUES



5. 3 white 1 master recipe 1 speck cadmium orange

DARK/GRAYED VALUES



8, 1 white 1 master recipe 1 recipe #12



3. 10 white 1 master recipe



6. 2 white 1 master recipe 2 specks cadmium vermilion



9. 1 master recipe 1 recipe #13



4. 6 white 1 master recipe



7. 2 white 1 master recipe 1 cadmium vermilion



10. 1 master recipe 2 recipe #14 1 speck cadmium vermilion

HIGHLIGHT VALUE



11. 1 white 1 speck cadmium yellow medium

WARM SHADOW



12. 1 master recipe 1 burnt sienna

COOL SHADOW



13. 1 white 1 cerulean blue hue 1 cadmium vermilion



14. 2 master recipe 1 viridian green

COLORS USED

- · Alizarin Crimson
- · Burnt Sienna
- · Burnt Umber
- · Cadmium Orange
- · Cadmium Yellow Medium
- Naples Yellow Hue
- · Phthalo Red
- Raw Sienna
- · Titanium White
- · Ultramarine Blue

Mix until the color matches the Master Skin Tone Recipe shown at right.

- 1. 6 Naples yellow hue 1 cadmium yellow medium 1 raw sienna 1 speck phthalo red



Phthalo red

MASTER SKIN TONE RECIPE

LIGHT VALUES



2. 2 white 1 speck master recipe

MIDDLE VALUES



5. 8 white 2 master recipe 1 cadmium orange

DARK/GRAYED VALUES



8. 2 master recipe 1 recipe #14 1 speck phthalo red



3. 1 recipe #2 1 recipe #4



6. 1 recipe #5 1 speck phthalo red



9. 3 master recipe 1 recipe #14 1 recipe #12



4. 3 white 1 master recipe

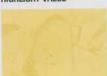


7. 2 recipe #6 2 specks recipe #14



10. 4 master recipe 1 recipe #13 1 recipe #11

HIGHLIGHT VALUE



11. 2 white 1 speck cadmium yellow medium

WARM SHADOW



12. 1 white 2 burnt sienna

COOL SHADOW



1 burnt umber 1 alizarin crimson



14. 3 white 1 ultramarine blue 3 specks alizarin crimson

COLORS USED

- · Alizarin Crimson
- Burnt Sienna
- · Burnt Umber
- Cadmium Orange
- · Cadmium Vermilion
- · Cadmium Yellow Medium
- · Ivory Black
- · Naples Yellow Hue
- Raw Sienna
- · Titanium White
- Ultramarine Blue

Mix until the color matches the Master Skin Tone Recipe shown at right.

- 1. 8 Naples yellow hue 1 cadmium yellow medium 3 raw sienna 2 specks cadmium vermilion



Cadmium vermilion

MASTER SKIN TONE RECIPE



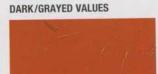
LIGHT VALUES

2. 2 white 1 speck master recipe

MIDDLE VALUES



5. 2 white 1 master recipe 1 burnt sienna 1 recipe #11



8. 3 master recipe 2 specks cadmium vermilion 1 speck alizarin crimson



3. 1 recipe #2 1 recipe #4



6. 5 recipe #5 1 cadmium orange 1 recipe #12



9. 2 master recipe 1 recipe #13



4. 2 white 1 master recipe



7. 2 recipe #5 1 recipe #13



10. 6 master recipe 1 alizarin crimson 3 specks ultramarine blue

HIGHLIGHT VALUE



11. 1 white 1 speck cadmium vermilion

WARM SHADOW



12. 2 white 2 burnt sienna 1 black

COOL SHADOW



13. 2 white 2 burnt umber 1 alizarin crimson



14. 2 white 1 ultramarine blue

COLORS USED

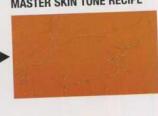
- · Alizarin Crimson
- Burnt Sienna
- . Burnt Umber
- · Cadmium Orange
- Cadmium Vermilion
- Naples Yellow Hue
- Raw Sienna
- Titanium White • Ultramarine Blue

Mix until the color matches the Master Skin Tone Recipe shown at right.

1. 1 raw sienna 1 cadmium orange 1 white



MASTER SKIN TONE RECIPE



LIGHT VALUES



2. 2 recipe #11 1 speck master recipe

MIDDLE VALUES



5. 2 master recipe



1 white 2 specks cadmium vermilion



8. 2 master recipe 1 burnt umber 1 cadmium orange



3. 2 white 1 master recipe



6. 2 recipe #5 1 recipe #12



9. 1 master recipe 1 recipe #12



4. 1 recipe #3 1 speck burnt sienna 1 speck cadmium vermilion



7. 2 recipe #5 1 recipe #13



10. 1 master recipe 1 recipe #12 1 recipe #13 1 speck #14

HIGHLIGHT VALUE



11. 3 white 1 speck cadmium orange

WARM SHADOW



12. 2 burnt sienna 1 alizarin crimson 1 Naples yellow hue

COOL SHADOW



13. 2 burnt umber 2 burnt umber 1 alizarin crimson 1 Naples yellow hue



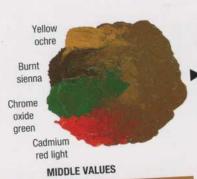
14. 1 white 1 ultramarine blue 1 alizarin crimson

COLORS USED

- Alizarin Crimson
- Burnt Sienna
- Burnt Umber
- · Cadmium Red Light
- Cadmium Vermilion
- · Chrome Oxide Green
- Cobalt Blue
- Titanium White
- · Yellow Ochre

Mix until the color matches the Master Skin Tone Recipe shown at right.

1. 4 yellow ochre 2 burnt sienna 1 chrome oxide green 3 cadmium red light



MASTER SKIN TONE RECIPE

LIGHT VALUES



2. 1 recipe #11 1 speck master recipe



5. 4 white 1 master recipe



8. 2 recipe #4 1 recipe #12



3. 3 white 1 master recipe



6. 1 recipe #5 1 recipe #7



9. 2 recipe #11 1 master recipe 1 recipe #14



4. 3 white 1 master recipe 2 specks cadmium vermilion



7. 3 recipe #5 1 master recipe



10. 2 recipe #9 1 recipe #13

HIGHLIGHT VALUE



11. 1 white 1 speck cadmium vermilion

WARM SHADOW



12. 2 master recipe 1 burnt sienna 1 speck alizarin crimson

COOL SHADOW



13. 2 master recipe 1 burnt umber



14. 2 white 1 chrome oxide green 2 specks cobalt blue

COLORS USED

- Alizarin Crimson
- Burnt Sienna
- Burnt Umber
- · Cadmium Orange
- Cadmium Vermilion
- Cadmium Yellow Medium
- · Ivory Black
- · Titanium White
- Ultramarine Blue
- · Yellow Ochre

Mix until the color matches the Master Skin Tone Recipe shown at right.

- 1 yellow ochre 2 burnt sienna 1 black



MASTER SKIN TONE RECIPE



LIGHT VALUES



2. 2 white 1 recipe #11 1 speck master recipe



5. 1 white 1 master recipe 2 specks recipe #12

DARK/GRAYED VALUES



8, 6 recipe #14 2 master recipe 1 cadmium vermilion



3. 1 master recipe 1 white 1 recipe #11



6. 2 white 3 master recipe 3 specks cadmium vermilion



9. 4 master recipe 2 recipe #14 1 alizarin crimson



4. 2 recipe #3 1 master recipe



7. 2 master recipe 1 burnt sienna



10. 2 master recipe 1 recipe #13

HIGHLIGHT VALUE



11.3 white speck cadmium orange
 speck cadmium yellow
 medium

WARM SHADOW



12. 2 burnt umber 1 cadmium vermilion

COOL SHADOW



13. 2 white 1 black 1 burnt umber 1 speck alizarin crimson



14, 2 white 1 ultramarine blue

COLORS USED

- · Alizarin Crimson
- Burnt Sienna
- · Burnt Umber
- · Cadmium Orange
- Cadmium Red Light
- · Cadmium Yellow Medium
- · Naples Yellow Hue
- · Raw Sienna
- . Titanium White
- Ultramarine Blue

Mix until the color matches the Master Skin Tone Recipe shown at right.

Naples yellow hue
 burnt sienna
 specks cadmium orange



MASTER SKIN TONE RECIPE



LIGHT VALUES



2. 1 white 1 recipe #11 1 speck master recipe





5. 3 recipe #14 1 master recipe 1 speck cadmium orange

DARK/GRAYED VALUES



8. 2 master recipe 1 recipe #14



3. 2 white 2 recipe #11 1 master recipe



6. 1 recipe #14 1 master recipe 1 speck recipe #12



9. 2 master recipe 1 recipe #12 1 speck cadmium red light



4. 3 recipe #11 1 master recipe

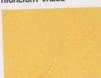


7. 3 master recipe 1 recipe #12



10. 1 master recipe 1 recipe #13

HIGHLIGHT VALUE



11. 3 white 1 Naples yellow hue 1 speck cadmium yellow medium

WARM SHADOW



12. 2 burnt umber 1 alizarin crimson 1 raw sienna

COOL SHADOW

13. 1 burnt umber 1 speck cadmium orange



- 14. 1 white
 - 1 ultramarine blue 1 alizarin crimson

COLORS USED

- Burnt Sienna
- Burnt Umber
- · Cadmium Red Light
- Cobalt Blue
- Ivory Black
- Naples Yellow Hue
- · Titanium White
- Venetian Red
- · Viridian Green

Mix until the color matches the Master Skin Tone Recipe shown at right.

1. 3 Venetian red 1 burnt sienna



MASTER SKIN TONE RECIPE



LIGHT VALUES



2. 1 Naples yellow hue 1 speck master recipe 1 speck cadmium red light

MIDDLE VALUES



5. 1 recipe #11 4 specks master recipe



8. 5 recipe #14 1 master recipe



3. 1 recipe #11 1 speck master recipe



6. 4 recipe #11 1 master recipe 3 Naples yellow hue



9. 1 white 1 master recipe 1 recipe #12



4. 1 recipe #11 2 specks master recipe



7. 2 recipe #11 1 master recipe



10. 3 recipe #13 1 master recipe 2 recipe #14

HIGHLIGHT VALUE



11. 6 white 5 Naples yellow hue 1 cadmium red light

WARM SHADOW

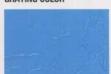


12. 1 master recipe 2 burnt umber

COOL SHADOW



13. 2 black 3 viridian green 1 master recipe



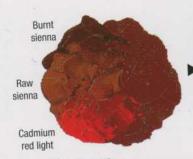
14. 2 white 1 cobalt blue

COLORS USED

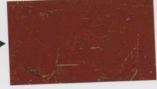
- · Alizarin Crimson
- Burnt Sienna
- Burnt Umber
- · Cadmium Orange
- · Cadmium Red Light
- Cadmium Yellow Medium
- · Chrome Oxide Green
- Raw Sienna
- · Titanium White
- Viridian Green

Mix until the color matches the Master Skin Tone Recipe shown at right.

1. 3 burnt sienna 2 raw sienna 1 speck cadmium red light



MASTER SKIN TONE RECIPE



LIGHT VALUES





2. 2 white 1 recipe #11 1 speck master recipe

MIDDLE VALUES



5. 1 white 1 master recipe

DARK/GRAYED VALUES



8. 4 master recipe 1 recipe #14



3. 1 recipe #11 2 specks master recipe



6. 3 recipe #5 1 recipe #12



9. 1 master recipe 1 recipe #12



4. 2 recipe #11 1 master recipe



7. 1 recipe #6 1 recipe #12 1 speck cadmium orange



10. 1 master recipe 1 recipe #13

HIGHLIGHT VALUE



11. 5 white 1 cadmium yellow medium 1 speck cadmium red light

WARM SHADOW



12. 2 burnt umber 1 alizarin crimson

COOL SHADOW



13. 2 burnt sienna 3 viridian green



14. 1 white 1 chrome oxide green

COLORS USED

- Alizarin Crimson
- Burnt Sienna
- · Burnt Umber
- Cadmium Orange
- Cadmium Vermilion
- · Ivory Black
- · Titanium White
- Ultramarine Blue
- · Yellow Ochre

Mix until the color matches the Master Skin Tone Recipe shown at right.

1. 2 burnt sienna 2 cadmium orange 1 yellow ochre 1 burnt umber



MASTER SKIN TONE RECIPE

DARK/GRAYED VALUES

LIGHT VALUES



2. 1 recipe #11 1 speck master recipe

3. 1 recipe #11 1 master recipe

MIDDLE VALUES



5. 1 recipe #11



1 master recipe 3 specks alizarin crimson 2 specks recipe #12



6. 1 recipe #5 1 recipe #7



9. 1 master recipe 1 recipe #12 1 speck recipe #14

8. 1 master recipe 1 recipe #14



4. 1 recipe #11 1 master recipe 2 specks alizarin crimson



7. 1 master recipe 1 burnt sienna



10. 2 master recipe 1 recipe #13

HIGHLIGHT VALUE



11. 1 white 1 yellow ochre 1 cadmium orange

WARM SHADOW



12. 2 burnt sienna 1 burnt umber

COOL SHADOW



13. 2 black 1 cadmium vermilion



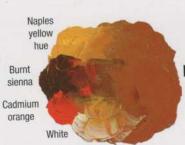
14. 2 white 1 ultramarine blue 1 alizarin crimson

COLORS USED

- · Alizarin Crimson
- Burnt Sienna
- · Burnt Umber
- · Cadmium Orange
- · Cadmium Red Light
- · Cadmium Vermilion
- · Ivory Black
- · Naples Yellow Hue
- · Titanium White
- · Ultramarine Blue
- · Yellow Ochre

Mix until the color matches the Master Skin Tone Recipe shown at right.

- 1. 4 Naples yellow hue 2 burnt sienna 1 cadmium orange 1 white



MASTER SKIN TONE RECIPE



LIGHT VALUES



2. 1 recipe #11 1 speck master recipe

MIDDLE VALUES



5. 3 master recipe 1 burnt umber

DARK/GRAYED VALUES



8. 1 master recipe 1 recipe #14



3. 1 recipe #11 master recipe



6. 3 master recipe 1 cadmium vermilion 1 recipe #14



9. 2 master recipe 1 recipe #12 1 recipe #14



4. 2 master recipe 3 recipe #11 2 specks alizarin crimson 2 specks burnt umber



7. 5 recipe #14 1 master recipe 1 recipe #12



10. 2 master recipe 1 recipe #13

HIGHLIGHT VALUE



11. 2 white

1 Napies yellow hue
1 yellow ochre
1 speck cadmium
red light

WARM SHADOW



12. 3 burnt sienna 1 black 2 specks cadmium vermilion

COOL SHADOW



13. 3 burnt umber 2 alizarin crimson



14. 4 white 1 alizarin crimson 1 ultramarine blue

COLORS USED

- Alizarin Crimson
- Burnt Sienna
- · Burnt Umber
- Cadmium Orange
- Cobalt Blue
- Ivory Black
- Raw Umber
- Titanium White
- Venetian Red
- Viridian Green

Mix until the color matches the Master Skin Tone Recipe shown at right.

1.2 raw umber 1 burnt sienna 3 white



MASTER SKIN TONE RECIPE



LIGHT VALUES



2. 3 white 1 recipe #11 1 master recipe





5. 1 master recipe 2 white 1 speck alizarin crimson





8. 2 master recipe 1 recipe #12



3. 2 recipe #11 2 white 1 master recipe



6. 1 recipe #5 2 specks black



9, 2 master recipe 1 recipe #13



4. 3 recipe #11 1 master recipe



7. 1 recipe #6 2 specks black 2 specks burnt umber



10. 2 master recipe 1 viridian green

HIGHLIGHT VALUE



11. 3 white 1 alizarin crimson 1 cadmium orange

WARM SHADOW



12. 2 black 1 Venetian red

COOL SHADOW



13. 1 black 1 cobalt blue

GRAYING COLOR



14. Viridian green (pure)

COLORS USED

- Alizarin Crimson
- Burnt Sienna
- · Burnt Umber
- · Cadmium Orange
- · Cadmium Red Light
- · Cobalt Blue
- Raw Umber
- Titanium White

Mix until the color matches the Master Skin Tone Recipe shown at right.

1. 2 raw umber 1 burnt sienna 6 white



MASTER SKIN TONE RECIPE



LIGHT VALUES



2. 5 white 1 master recipe 1 recipe #11

MIDDLE VALUES



5. 4 white 1 master recipe 1 burnt sienna 1 recipe #11

DARK/GRAYED VALUES



8. 1 master recipe 1 recipe #14



3. 2 master recipe 2 recipe #11 3 white



6. 2 recipe #5 1 white 1 burnt sienna



9. 2 white 2 master recipe 1 recipe #12



4. 1 recipe #3 2 specks alizarin crimson



7. 1 white 1 recipe #6 2 specks alizarin crimson



10. 3 white 2 master recipe 1 recipe #13

HIGHLIGHT VALUE



11. 3 white 1 cadmium orange 1 speck cadmium red light

WARM SHADOW



12. 1 burnt sienna 1 speck cobalt blue

COOL SHADOW



13. Burnt umber (pure)

GRAYING COLOR



14. 12 white 4 cobalt blue 1 cadmium red light

ColorTones EYES

BASIC COLOR RECIPES FOR THE EYES

These basic color recipes offer good starting mixes that can be lightened, darkened, or grayed according to your model.

THE UPPER LID CASTS A SHADOW ON THE EYEBALL.



The white of the eye is not pure white. Mix a bit of skin tone and a tiny bit of ultramarine blue into white. Keep the mix warm and light. Then highlight a small area on each side of the iris with a spot of pure white. The surface reflection on the eye should be soft. Paint a light blue circle first (white + 1 speck of ultramarine blue), and then place the white highlight spot in it. Titanium white and flake white are both warm whites and work well for skin tones and eyes in portrait painting.

BROWN

Eyes in this book are lit from the upper left. Light is caught in the lower right of the iris, creating a liquid appearance and a reflection on the surface in the upper left pupil.



1. Pupil 1 burnt umber +





MAIN COLOR

3. Iris Medium 3 recipe #2 + 5 yellow ochre + 2 cadmium orange





DARK BROWN

and lashes.

5. Iris Highlight 2 white + 1 speck yellow ochre + 1 speck recipe #4

Keep all dark brown mixes warm in color tone.

As with all the eyes, the iris is darker at the top

because of the shadow cast by the upper eyelid

LIGHT BROWN

There is a wide range of light brown eyes. Warm these colors with a tiny speck of cadmium red light, or cool them with a speck of ultramarine blue.



1. Pupil 1 burnt sienna + 1 speck burnt umber







2. Iris Main 2 raw sienna + 1 speck cadmium red light



1 burnt sienna





3. Iris Medium 4 Naples yellow hue + 1 raw sienna 4. Iris Light



3. Iris Medium 1 burnt umber + 1 cadmium orange









5. Iris Highlight 2 white + 1 recipe #4

1 Naples yellow hue + 1 speck cadmium orange

ColorTones EYES

BLUE

Blue eyes can range from a light crystal color to a deep sapphire. The basic recipes here can be lightened with white; darkened with deeper blues, such as cobalt or ultramarine blue; or grayed with burnt umber, raw sienna, or a speck of cadmium orange.



1. Pupil 1 black +

1 ultramarine blue + 1 recipe #2



2. Iris Main

2 white + 1 ultramarine blue + 1 speck cadmium red light

MAIN

COLOR

BLENDS



3. Iris Medium

3 white + 1 cerulean blue hue + 1 recipe #2



4. Iris Light 2 white + 1 recipe #3



5. Iris Highlight

2 white -1 speck Naples yellow hue



Hazel eyes can be warm, cool, or slightly gray in color. Manipulate these basic mixes with cadmium orange to warm; viridian green to cool; and a warm purple mix to gray.



1. Pupil

1 burnt umber + 1 raw sienna



2. Iris Main

1 white + 1 raw sienna



3. Iris Medium

MAIN

BLENDS

3 white + 1 raw sienna + 1 speck ultramarine blue



4. Iris Light

1 white + 2 Naples yellow hue + 1 speck viridian green



5. Iris Highlight 2 white + 1 speck Naples yellow hue

GREEN

There are many variations of green eyes-some even appear to have small flecks of brown or yellow. Use raw sienna and yellow ochre warmed with a speck of cadmium orange to create this effect.



1. Pupil

1 burnt umber + 1 recipe #2



MAIN

COLOR

BLENDS

2. Iris Main

3 white + 1 cerulean blue hue + 1 raw sienna + 1 speck Naples yellow hue



3. Iris Medium

3 white + 1 cerulean blue hue + 1 speck Naples yellow hue



4. Iris Light

2 white + 1 recipe #3 + 1 speck cadmium yellow light



5. Iris Highlight

2 white + 1 speck Naples yellow hue



GRAY

Some gray eyes appear to have a cold look, whereas others appear warmer. For a cool, steely look, add a speck of cerulean blue hue and raw umber to the mix. Use ultramarine blue or cobalt blue for a warmer color.



1. Pupil

9 viridian green + 1 cadmium red light



1 recipe #1 +

2. Iris Main

2 white



3. Iris Medium

6 white + 2 recipe #1 +



1 cadmium orange

4. Iris Light 4 white +



1 recipe #1





MAIN COLOR



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DARK BROWN

Dark brown hair is usually warm in color. If your model has hair that is a bit cooler, add a small speck of viridian green or ultramarine blue to the mix.



SHADOWS



1. 3 burnt umber 2 burnt sienna

MAIN COLOR



2. 1 burnt sienna 1 raw sienna

HIGHLIGHTS



3. 1 white 1 raw sienna 1 cadmium orange

BROWN

This is just slightly lighter in value than dark brown, but it is also warm in color. Keep value changes subtle. Do not use pure white as a highlight—instead add white to the light recipe.



SHADOWS



MAIN COLOR

2. 1 recipe #1 1 yellow ochre 1 white 1. 2 burnt sienna 2 burnt umber 1 white



3. 1 recipe #2 2 white

GOLDEN BROWN

Golden brown is a bit richer in yellow than the two previous browns. Raw sienna is the dominant color in these recipes. Again, don't use only white to lighten; remember to add color as well (see page 9).



SHADOWS



1. 3 raw sienna 2 burnt sienna 1 burnt umber

MAIN COLOR



2. 2 raw sienna

HIGHLIGHTS



3. 6 Naples yellow hue 1 white 1 raw sienna

LIGHT BROWN

The colors in light brown hair can be a bit cooler than those in brown or dark brown. Use a little viridian green or a touch of cerulean blue hue to cool colors, if necessary.



SHADOWS



1. 4 raw sienna 1 burnt umber 2 white 2 specks burnt

MAIN COLOR

2. 4 yellow ochre 4 Naples yellow 1 burnt sienna

3. 1 recipe #2 2 white

AUBURN

Auburn hair is very rich in dark reds mingled with deep browns. Notice that this set of recipes includes both a warm red (cadmium red light) and a cool red (alizarin crimson).



SHADOWS



1. 2 alizarin crimson 2 burnt sienna

1 burnt umber



2. 1 burnt sienna 1 cadmium red light



3. 2 yellow ochre 1 cadmium red light

RED

Reds can range from rich, deep reds to carrotlike orange tones. In these recipes, cool phthalo red tones down the warmth of cadmium orange without losing color intensity.



SHADOWS



1. 2 raw sienna 1 cadmium orange 1 speck cadmium red light 1 speck burnt umber

MAIN COLOR

2. 1 cadmium orange 1 speck phthalo red

HIGHLIGHTS



3. 1 Naples yellow hue 2 specks cadmium orange 1 speck cad. yellow light

STRAWBERRY BLOND

This color can be tricky. Some hair leans toward the reds without being "red," whereas other hair leans toward the orange-tan range of color. Add a speck of cadmium vermilion to these mixes if you need a redder tint.



SHADOWS



1. 1 raw sienna 1 Napies yellow 1 speck cad. red light

MAIN COLOR



2. 1 Naples yellow hue 1 speck cad. red light

3. 1 recipe #2 2 white

GOLDEN BLOND

The colors in some golden blond hair can be fairly strong. The value is usually lighter than strawberry blond and is a little less red in hue. Use cadmium yellow medium to make these colors appear more golden.





Naples yellow hue
 raw sienna



2. 2 Naples yellow hue 1 speck cad. yellow med.



3. 6 white 1 cad. yellow med. 1 speck Naples yellow hue

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PALE BLOND

Keep the colors fresh by limiting the use of white. Naples yellow hue, cadmium yellow medium, and raw sienna mixed with white make good combinations for this hair color.



SHADOWS



1. 1 white 1 Naples yellow hue 1 raw sienna

MAIN COLOR



1 Napies yellow hue 1 speck cad. yellow med.

3. 6 white

ASH BLOND

This hair color contains more green than the others do. However, it must be very subtle and used only to affect the other colors in creating the ash appearance.



SHADOWS



1. 4 white 3 raw sienna 1 chrome oxide

2. 4 white green



3. 1 white 1 speck raw 1 yellow ochre 1 chrome oxide green sienna 1 speck chrome oxide green

WARM WHITE

When painting white hair, try to keep the colors from appearing chalky. Also limit the use of yellows in white hair, as they can cause the hair to appear heavy and unclean.



Colors in cool white must also be kept to a minimum. Ultramarine blue is a warm blue. It contains a bit of red, making it a purplish-blue that is perfect for cool white hair.



SHADOWS



1. 1 white 1 speck burnt umber

MAIN COLOR



2. 1 white 1 speck burnt sienna



3. 1 white 1 speck cad-mium orange



SHADOWS



1. 1 white 1 speck burnt umber 1 speck ultra-marine blue



2. 1 white 1 speck ultra-marine blue



3. White (pure)

WARM GRAY

Gray hair also contains color. As in white hair, keep the colors soft. If your model has warm gray with more brown-red tones, use burnt umber and a speck of cadmium red light.



SHADOWS



1 burnt umber 1 ultramarine

MAIN COLOR



2. 1 white 1 speck burnt umber 1 speck alizarin crimson

HIGHLIGHTS

3. 2 white 1 speck burnt sienna

COOL GRAY

Use ivory black for this hair color. It is a warm black, and it's weaker than other blacks. When mixed with the other recipes here (all of which contain ultramarine blue), it works perfectly.



SHADOWS



1. 8 white 1 black



2. 2 white 1 speck ultra-marine blue 1 speck alizarin crimson 1 speck black



3. 2 white 1 speck ultra-marine blue

WARM BLACK

This hair color contains recipes that reflect warm highlights. Make your own black for the dark recipe with burnt umber and ultramarine blue. This way you can make it cooler with more blue or warmer with more umber.



SHADOWS



1. 1 burnt umber ultramarine blue

MAIN COLOR

2. 1 recipe #1 2 white 3 specks burnt

3. 1 recipe #2 2 white 2 specks alizarin crimson

COOL BLACK

For cool black, use a mix of black and ultramarine blue. The addition of ultramarine blue along with alizarin crimson in the light recipe gives the color a slight purplish tone.



SHADOWS



1. 1 black 1 ultramarine blue



2. 1 recipe #1 1 white



3. 1 recipe #2 1 white 1 speck alizarin

WATERCOLOR COLORS USED

- Burnt Umber
- · Burnt Sienna
- · Cadmium Red Light
- · Hooker's Green Deep
- · Permanent Rose
- Ultramarine Blue
- Yellow Ochre

Mix until the color matches the **Master Skin Tone Recipe** shown at right.

1. 50% yellow ochre 50% cadmium red light Water: level 5

1. MASTER SKIN TONE RECIPE



COLOR/WATER LEVELS

Level 1 Pale Color

Level 2 Weak Color

Level 3 Medium Color

Level 4 Strong Color

Level 5 Very Strong Color

LIGHT VALUES



2. 100% master recipe Water: level 1





5. 80% master recipe 20% recipe #12 Water: level 3



8. 80% master recipe 20% recipe #14 Water: level 3



3. 100% master recipe Water: level 2



6. 70% master recipe 30% recipe #12 Water: level 3



9. 60% master recipe 25% recipe #14 15% recipe #12 Water: level 4



4. 95% master recipe 5% recipe #11 Water: level 2



7. 60% master recipe 40% recipe #13 Water: level 4



10. 60% master recipe 30% recipe #13 10% ultramarine blue Water: level 4

HIGHLIGHT VALUE



11. 1 speck permanent rose Water: level 1

WARM SHADOW



12. 75% burnt sienna 25% burnt umber Water: level 4

COOL SHADOW



13. 60% burnt sienna 20% burnt umber 20% ultramarine blue Water: level 4



14. 100% Hooker's green deep Water: level 4

WATERCOLOR **COLORS** USED

- · Cadmium Red Light
- · Cerulean Blue Hue
- · Cobalt Blue
- Burnt Sienna · Burnt Umber
- · Permanent Rose
- - · Sepia
- Viridian Green

Raw Sienna

Mix until the color matches the Master Skin Tone Recipe shown at right.

1.85% raw sienna 15% cerulean blue hue Water: level 5

1. MASTER SKIN TONE RECIPE



COLOR/WATER LEVELS

Level 1 Pale Color

Level 2 Weak Color

Level 3 Medium Color

Level 4 Strong Color

Level 5 Very Strong Color

LIGHT VALUES



MIDDLE VALUES



5. 60% master recipe 40% burnt umber Water: level 3



8. 45% master recipe 45% recipe #12 10% permanent rose Water: level 3

3. 90% master recipe 10% cadmium red light Water: level 3

2. 95% master recipe 5% cadmium red light Water: level 2



6. 85% master recipe 15% viridian green Water: level 3



9. 40% burnt sienna 40% recipe #14 20% master recipe Water: level 4



4. 80% master recipe 20% burnt sienna Water: level 3



7. 60% master recipe 40% recipe #14 Water: level 3

10. 50% master recipe 50% recipe #12 Water: level 4

HIGHLIGHT VALUE



11. 1 speck any color above Water: level 1

WARM SHADOW



12. 100% sepia Water: level 3

COOL SHADOW



13. 50% sepia 50% viridian green Water: level 3

GRAYING COLOR



14. 80% cobalt blue 20% master recipe Water: level 3

WATERCOLOR COLORS USED

- · Burnt Sienna
- Burnt Umber
- · Cadmium Orange
- · Cerulean Blue Hue
- · Cobalt Blue
- · Permanent Rose
- · Viridian Green
- · Yellow Ochre

Mix until the color matches the Master Skin Tone Recipe shown at right.

1. 60% yellow ochre 30% cadmium orange 10% permanent rose Water: level 5

1. MASTER SKIN TONE RECIPE



COLOR/WATER LEVELS

Level 1 Pale Color

Level 2 Weak Color

Level 3 Medium Color

Level 4 Strong Color

Level 5 Very Strong Color

LIGHT VALUES



2. 100% master recipe Water: level 1





5. 100% master recipe Water: level 3

DARK/GRAYED VALUES



8. 80% master recipe 20% recipe #14 Water: level 4



3. 100% master recipe Water: level 2



6. 70% master recipe 30% burnt sienna Water: level 3



9. 70% master recipe 30% recipe #12 Water: level 4



4. 100% master recipe Water; level 2.5



7. 70% master recipe 30% burnt umber Water: level 3



10. 75% recipe #13 25% master recipe Water: level 4

HIGHLIGHT VALUE



11. 1 speck any color above Water: level 1

WARM SHADOW



12. 90% burnt sienna 10% cobalt blue Water: level 4

COOL SHADOW



13. 90% burnt umber 10% cobalt blue Water: level 4

GRAYING COLOR



14. 95% viridian green 5% cerulean blue hue Water: level 4

WATERCOLOR COLORS USED

- Alizarin Crimson
- Burnt Sienna
- . Burnt Umber
- · Cadmium Orange
- · Cobalt Blue
- Permanent Rose
- Raw Sienna

Mix until the color matches the Master Skin Tone Recipe shown at right.

1. 40% raw sienna 40% cadmium orange 20% burnt umber Water: level 5

1. MASTER SKIN TONE RECIPE



COLOR/WATER LEVELS



Level 5 Very Strong Color

LIGHT VALUES



MIDDLE VALUES



5. 90% master recipe 10% burnt sienna Water: level 3





8. 75% recipe #12 25% master recipe Water: level 4



3. 97% master recipe 3% permanent rose Water: level 2

2. 100% master recipe Water: level 1



6. 85% master recipe 10% burnt sienna 5% alizarin crimson Water: level 4



9. 75% recipe #13 25% master recipe Water: level 4



4. 95% master recipe 5% permanent rose Water: level 3



7. 70% master recipe 20% burnt umber 10% alizarin crimson Water: level 4



10. 80% recipe #14 20% master recipe Water: level 4

HIGHLIGHT VALUE



11. 1 speck cadmium orange Water: level 1

WARM SHADOW



12. 75% burnt umber 25% alizarin crimson Water: level 4

COOL SHADOW



13. 60% burnt umber 40% cobalt blue Water: level 4

GRAYING COLOR



14. 70% cobalt blue 30% alizarin crimson Water: level 3

WATERCOLOR COLORS USED

- Burnt Sienna
- · Burnt Umber
- · Cerulean Blue Hue
- Ivory Black
- · Lemon Yellow
- · Permanent Rose
- · Sap Green

Mix until the color matches the Master Skin Tone Recipe shown at right.

1. 60% permanent rose 40% lemon yellow Water: level 5

1. MASTER SKIN TONE RECIPE



COLOR/WATER LEVELS

Level 1 Pale Color Level 2 Weak Color

Level 3 Medium Color

Level 4 Strong Color

Level 5 Very Strong Color

DARK/GRAYED VALUES

LIGHT VALUES



2. 90% master recipe 10% lemon yellow Water: level 1



5. 95% master recipe 5% permanent rose Water: level 3





8. 50% master recipe 50% recipe #14 Water: level 3.5



3. 100% master recipe Water: level 1.5



6. 50% recipe #12 50% master recipe Water: level 3



9. 40% master recipe 40% burnt umber 20% recipe #14 Water: level 4



4. 100% master recipe Water: level 2

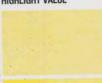


7. 70% master recipe 30% recipe #13 Water: level 3



10. 90% master recipe 10% cerulean blue hue Water: level 4

HIGHLIGHT VALUE



11. 1 speck lemon yellow Water: level 1

WARM SHADOW



12. 90% burnt sienna 10% master recipe Water: level 3

COOL SHADOW



13. 70% master recipe 30% black Water: level 4

GRAYING COLOR



14. 60% master recipe 40% sap green Water: level 3

WATERCOLOR **COLORS** USED

- Burnt Sienna
- · Burnt Umber
- · Cadmium Red Light
- · Lemon Yellow
- · New Gamboge
- · Viridian Green

Mix until the color matches the Master Skin Tone Recipe shown at right.

1. 60% cadmium red light 40% new gamboge Water: level 5

1. MASTER SKIN TONE RECIPE



COLOR/WATER LEVELS

Level 1 Pale Color Level 2 Weak Color

Level 3 Medium Color

Level 4 Strong Color

Level 5 Very Strong Color

LIGHT VALUES



2. 100% master recipe





5. 90% master recipe 10% new gamboge Water: level 3





6. 95% master recipe





8. 50% master recipe 50% recipe #12 Water: level 3



3. 100% master recipe Water: level 2



5% new gamboge Water: level 3



9. 50% master recipe 50% recipe #13 Water: level 3



4. 90% master recipe 10% lemon yellow Water: level 2



7. 100% master recipe Water: level 3.5



10. 65% master recipe 35% recipe #14 Water: level 3

HIGHLIGHT VALUE



11. 1 speck any color above Water: level 1

WARM SHADOW

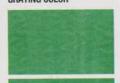


12. 50% burnt sienna 50% burnt umber Water: level 3

COOL SHADOW



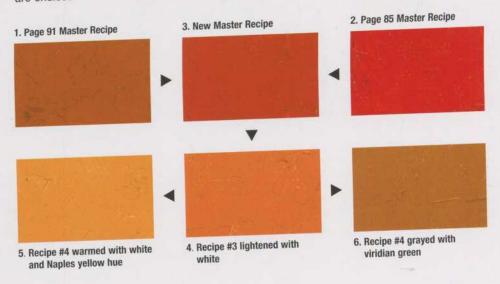
GRAYING COLOR



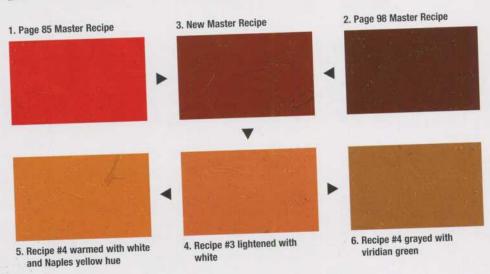
14. 100% viridian green Water; level 3

CreatingColors NEW MASTER RECIPES

You can create your own master recipes for a completely new variation of skin tones. Use the examples here and create your own combinations. You can even create your own original master recipes. By adding additional colors to the selected master recipe, the combinations are endless.



By selecting master recipes that are very different in tone, you can achieve almost any color. You can even lighten, darken, warm, cool, or gray the recipes. Mixing Page 85's Master Recipe with Page 98's Master Recipe creates some beautiful skin tones. Vary the mix amounts for even a wider range of skin tone colors.



Creating Colors RECIPE VARIATIONS

Like the master recipes, subsequent value recipes also can be altered. They can be intermixed (creating a new color), lightened, darkened, grayed, and so on. This first example is golden tones mixed with ruddy tones. This creates a new and beautiful color mix. Add more of the ruddy tones for a redder color.



You will notice similarities in the recipes. However, there are slight tonal differences that are extremely important in matching a model's skin tone. You can also add raw colors to these recipes. For instance, if your model is reddish in tone, find and add the correct red, warm, cool, dark, light, and so on.





PaintColorsNeeded

You will need all of the following colors to create the color mixing recipes in this section. Note: Some acrylic color names will vary depending on the manufacturer; also, some of these colors are not available in acrylic so they must be mixed. Please refer to the Acrylic Color Conversion Chart below.

All	-			м	6 E	۰
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Alizarin crimson **Burnt sienna Burnt umber** Cadmium orange

Cadmium red light **Cadmium vermillion**

ACRYLIC COLOR NAME

Alizarin crimson **Burnt sienna Burnt umber** Cadmium orange Cadmium red light not available (use mixture)

Cadmium yellow light Cadmium yellow light Cadmium yellow medium Cadmium yellow medium Cerulean blue Cerulean blue Cobalt blue **Cobalt blue Cobalt violet Cobalt violet** Ivory black lvory black Medium magenta Magenta Naples yellow Naples yellow (or use mixture)

EQUIVALENT MIXTURE

2 parts indo-red= 1 part Napthol crimson

4 parts yellow ochre/oxide+ 1 part titanium white 2 specks cadmium orange

Permanent blue Permanent green light

Raw sienna Raw umber Thalo® blue

> *can be substituted with phthalo blue or Winsor blue (green shade)

Thalo® green (blue shade) *can be substituted with phthalo green or Winsor green

Thalo® red rose *can be substituted

with quinacridone red Titanium white

Venetian red Viridian green Yellow ochre Zinc yellow

Ultramarine blue Permanent green light

Raw sienna Raw umber Phthalo blue

Phthalo green

Napthol crimson, phthalo crimson, or quinacridone red

Titanium white

Venetian red or red oxide

Viridian green or viridian hue permanent Yellow ochre or yellow oxide

Yellow light hansa

Color Mixing for Landscapes

Contents

•	Using the Recipes	119-121
	Skies and Clouds Trees and Mountains	. 122-123
	Color Recipes	. 124-153
	Color Recipes	

SKIES AND CLOUDS

The sky is the most important element in a painting because it influences the entire landscape composition, controlling the light, time of day, season, weather, color palette, and mood of a scene. Colors and lighting also vary in terms of color temperature, with the palette leaning either warm or cool. Early morning light is cooler than mid-afternoon or a warm evening sunset. Because of this, we use different color combinations and palettes for each skyscape. Different cloud formations also dictate weather and sky moods.

Testing the Colors As you mix various combinations of sky colors, simply test them on a small bit of canvas in what I call "smearings," as shown in the inset at left. Notice how the smearing harmonizes with the entire skyscape. A smearing allows you to compare the colors and assess how compatible each

is with the others. You will find the recipes for this little color sketch in the index under **Skies & Clouds**, "Daybreak Pinkish Sky." The color recipes used in this little painting are as follows: zenith #67, secondary color #68, and horizon colors #65 and #69. The clouds are as follows: main color #72, highlight colors #65 and #74, and shadow color #70.

Comparing Sky Moods The three small color sketches on this page are similar in composition and cloud formations. However, the time of day and color mood is completely different in each. Compare them and notice the difference.

Finding Recipes Complete recipes for the color sketches below are in the index under Skies & Clouds, "Daybreak Blue Sky" (A) and "Dusk Blue Sky" (B). Index recipes range from daybreak to sunsets along with moonlight, stormy skies, and many other mood combinations. You can create complete, detailed paintings of any size using these color recipes.

Another method of using the color recipe swatches and index is to simply scan through the pages of recipe mixtures. Compare the swatches to the colors you see in your photo or subject. Select the dominant colors first, and then use the book to search for secondary and subtle color tones

seen throughout your composition. Make notes and smearings of recipes you are considering to make certain they work well together. Create small non-detailed color sketches, such as these examples. Once you have selected your colors, you can

create a larger painting with great success.





Below are several sky mood sketches. The index name of each sketch is listed beneath. Select the one in the index that you would like to paint and follow the corresponding recipe numbers. The four thumbnail color sketches below are shown at the exact size they were painted.



Index: Early Morning Cool Sky Clouds



Index: Sunset, Reddish Clouds

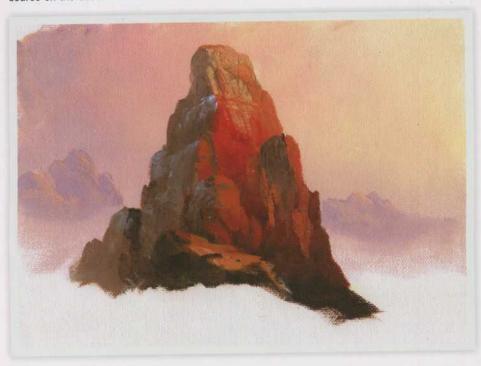


Index: Afternoon Warm Sky Clouds



Index: Evening Sky, Clouds & Light Rays

The rough color sketch of the desert rock below shows the versatility of using color recipes from different parts of the book to create a composition. The mood involves a warm, low-light source on the desert red rock.



Color recipes used in this sketch include the following:

Sky: Begin at right and blend color mixtures toward the left. Start with #65 blended into #117 blended into #120.

Distant Rocks: Base color is #120 with highlights of #105. Main Rock: Paint the dark base shape using #43. Then add progressively lighter areas using recipes #22, #57, #30, #55, #18, and #40. Use a bit of #49 and #106 on the shadowed side. These mixes can be used to create any number of desert or seascape scenes with dramatic mood lighting. Remember to build colors from dark to light in this sketch.



Light Recipe #30

Base Color

Sky Recipe #117

Light Recipe #40

Base Shape











When we think of colors in nature, we usually say that skies are blue, trees are green, and so TREES AND MOUNTAINS on. However, when we look closely and analyze the colors in an object, we find that not only does it contain a variety of color tones, but each object also contains a number of color values (the lightness or darkness of a color) within it.

Painting Trees When we look at a tree, our first impression is that it is made up of one overall color: green. Upon closer observation, we find it is made up of numerous tones of greens; several are a basic mass color, a secondary lighter color, a dark shadow color, and a highlight color. In some instances, there are additional subtle values within the tree mass. This variation in color tones is what allows the artist to create the illusion of form and dimension within an object on a flat painting surface. All objects in nature are made up of a number of color tones, whether a tree trunk, rock, or mountain. Even a small leaf contains numerous tones. The simple example at right shows how the recipes for a coniferous tree have been selected and applied to develop a very realistic tree.

Compare the recipe colors used to paint the pine tree at right, and you will see how easily you can use the color guidance landscape index to find the colors of the subject and then paint it using those colors.

You can also just scan through the mixtures and select colors you see in your subject. Below is a broadleaf bough that has been created using some of the same color mixtures used on the coniferous tree, plus a few added mixtures for warmth.





Dark Foliage Recipe #81

Middle Foliage Recipe #98

Light Foliage Recipe #100

Highlight Foliage Recipe #85

Trunk Dark Recipe #26

Trunk Secondary Recipe #31

Trunk Highlight Recipe #40

Branches Gray Recipe #39



Broadleaf Bough Foliage: Dark green #81, secondary green #83, light green #95, highlight green #85, bright light green #87. Branches: Dark #43, secondary #55, and highlight #40.

◆ Pine Tree Trunk Dark brown #43, secondary warm #48, middle light #59, highlight #40, and #141 for the cool accent color used within the shadow on the right side.

Tip: In all exercises, allow your brushstrokes and colors to blend into one another to create realistic form.

USING RECIPES TO PAINT MOUNTAINS

There are many types and colors of mountains, but one of the most common is gray. This entire exercise uses only recipe mixes from this book. Below you can see how easily you can create an entire scene using the recipes. Go to the index and find Mountain Scene Colors, "Gray Mountain Scene with Snow." You will discover the full set of mixtures for this painting. Follow the steps below to re-create it yourself.



Step 1. Begin by painting the sky blue using recipe #106. Then paint the pink horizon using recipe #64, and blend it into the previous mixture. Next, paint the distant mountain with recipe #106, and blend #108 at the base for haze. Next, paint the main mountain shape using #101. To create a haze at the bottom of the main mountain, blend #107 into the base.



Step 2. Paint in the mountain forms using recipes #102 for the lighter side and #103 for the shadow side. This step is very important since you create the basic forms and depth of the entire mountain. Notice how a smaller peak has been developed in front of the mountain using these mixes.



Step 3. Next, begin painting the warm, peach sunlit snow on the right sides of the mountain using recipe #105. Then use #106 for the blue shadowed snow. Add the highlights using recipe #108. Use a mix of #107 and #108 to enhance the base haze. Finally, paint the distant pine trees using #104.

- Alizarin Crimson
- Burnt Umber
- · Cadmium Orange
- Cadmium Red Light
- Cadmium Vermilion
- · Cadmium Yellow Light
- · Cerulean Blue
- Ivory Black
- · Permanent Blue
- Raw Sienna
- Thalos Blue
- · Titanium White
- Venetian Red
- · Yellow Ochre
- Zinc Yellow



1. 1 white 4 permanent blue



2. 2 permanent blue 1 white 1 • alizarin crimson





3. 2 white 1 permanent blue 1 • cerulean blue



4. 1 white 1 • Thalo® blue



5. 2 white 1 zinc yellow 1 • cadmium orange



6. 1 white 1 • yellow ochre



7. 8 white 1 yellow ochre 1 • permanent blue



8. 6 white 1 Thalo® blue 4 zinc yellow



9. 7 white 1 ivory black 3 cadmium yellow light



10. 4 zinc yellow 1 • cerulean blue 1 • raw sienna



11. 8 cadmium yellow light 1 cerulean blue



12. 5 zinc yellow hue 1 Thalo® blue



13. 5 white 3 yellow ochre 1 permanent blue



14. 5 white 1 • burnt umber



15. 2 cadmium vermilion 1 ivory black



16. 8 cadmium vermilion 1 ivory black



17. 5 white 1 • alizarin crimson



18. 4 white 1 cadmium red light 7 zinc yellow



19. 3 white 1 Venetian red



20. cadmium vermilion

- Burnt Sienna
- Cadmium Orange
- Cadmium Vermilion
- Cadmium Yellow Light
- · Cobalt Violet
- Ivory Black
- · Permanent Blue
- Permanent Green Light
- Raw Sienna
- Titanium White
- Yellow Ochre
- · Zinc Yellow



21. 3 white 1 raw sienna 1 • zinc yellow



22. 2 cadmium vermilion 1 ivory black



23. 1 cobalt violet 1 cadmium orange 1 zinc yellow



24. 7 white 1 ivory black 1 • cadmium vermilion



25. 1 cadmium yellow light 1 cobalt violet



26. 1 burnt sienna 2 permanent green light



27. 3 permanent green light 1 cadmium vermilion



28. 1 cadmium vermilion 1 ivory black 4 raw sienna 1 white



29. 1 white 2 yellow ochre



30. 1 burnt sienna 1 raw sienna



31. 3 raw sienna 1 white



32. 2 white 2 cadmium orange 1 permanent green light



33. 5 white 3 yellow ochre 1 permanent blue



34. 5 white 2 yellow ochre 3 • permanent blue



35. 3 white 2 raw sienna 1 permanent blue 1 • burnt sienna



36. 3 white 1 #35 1 • raw sienna



37. 5 white 1 burnt sienna 1 permanent blue



38. 8 white 2 burnt sienna 1 permanent blue



39. 2 white 1 #38



40. 3 white 1 yellow ochre

- Burnt Sienna
- Burnt Umber
- Cadmium Orange
- Cadmium Red Light
- · Cadmium Vermilion
- · Cadmium Yellow Light
- Cadmium Yellow Medium
- · Cerulean Blue
- Cobalt Violet
- Ivory Black
- Naples Yellow
- Permanent Blue
- Permanent Green Light
- Raw Sienna
- Titanium White
- Yellow Ochre



- 41. 2 raw sienna 1 cobalt violet 1 • cadmium vermilion
- 42. 1 ivory black 1 • permanent blue



43. 1 burnt umber 1 • cadmium vermilion



44. 2 raw sienna 1 permanent green light



45. 3 Naples yellow 2 burnt sienna 1 • cadmium vermilion



45. 1 cadmium yellow medium 1 burnt umber 1 • cadmium orange



47. 1 cadmium yellow medium 1 cobalt violet 1 • burnt sienna



48. 4 white 1 burnt sienna 2 • burnt umber



49. 3 white 1 burnt umber 2 • burnt sienna



50. 6 white 1 burnt sienna 2 raw sienna



51. 1 burnt umber 1 permanent blue 1 • Naples yellow



52. 1 white 1 burnt umber 1 • burnt sienna



1 burnt sienna 1 raw sienna 2 • permanent blue



54. 1 cadmium vermilion 2 • ivory black



55. 4 cadmium orange 1 cerulean blue



56. 8 white 1 yellow ochre 1 • permanent blue



57. 2 cadmium yellow medium 1 cadmium vermilion 1 • burnt umber



58. 2 cadmium yellow light 1 cobalt violet



59. 6 white 7 Naples yellow 1 cadmium red light



60. 3 white 1 burnt sienna

COLORS USED

- · Alizarin Crimson
- · Cadmium Orange
- · Cadmium Red Light
- · Cerulean Blue
- · Cobalt Blue
- · Cobalt Violet
- Ivory Black
- · Naples Yellow
- · Permanent Blue
- Titanium White
- · Venetian Red
- · Zinc Yellow



- 61. 6 white 1 cerulean blue
- 1 cobalt blue 1 cobalt violet



62. 8 white 1 cerulean blue



- 63. 3 white 2 alizarin crimson 1 zinc yellow



- 64. 3 white 1 cadmium red light



65. 2 white 3 • Naples yellow



- 66. 2 white 1 cobalt blue 1 cadmium red light



- **67.** 2 white
- 2 cobalt blue 1 cadmium red light



- **68.** 5 white
- 3 cerulean blue 1 cadmium red light 1 cadmium orange



- 69. 2 white 1 cadmium orange 1 cerulean blue



- 70. 7 white
 - 1 permanent blue 2 Venetian red



- 71. 2 white 1 cadmium orange 1 cobalt blue



- 72. 2 white 2 ivory black 1 cadmium red light



- 73. 1 #72 1 cobalt blue 1 ivory black

- 74. 2 white 1 cadmium orange



- 75. 3 white 4 ivory black 3 cobalt violet



- 76. 4 white 1 cobalt blue 3 cobalt violet

- 77. 6 white

 - cadmium orange
 alizarin crimson



- 78. 2 white 1 alizarin crimson 1 cadmium orange

- 79. 4 white 1 cadmium orange



- 80. 1 #75 1 ivory black 1 alizarin crimson

- · Burnt Umber
- · Cadmium Orange
- · Cadmium Red Light
- · Cadmium Yellow Light
- Cadmium Yellow Medium
- · Cerulean Blue
- Ivory Black
- Naples Yellow
- · Permanent Blue
- · Permanent Green Light
- Raw Sienna
- Thalo® Blue
- Titanium White
- · Yellow Ochre
- Zinc Yellow



81. 2 burnt umber 1 Thalo® blue



82. 3 yellow ochre 1 permanent blue



83. 1 cadmium yellow medium 3 • permanent blue



84. 1 cadmium yellow light 2 • permanent blue



85. 2 zinc yellow 1 • cerulean blue



86, 1 zinc yellow 2 • #85 2 • white



87. 1 #86 1 white



88. 2 cerulean blue 2 Naples yellow 1 cadmium orang



89. 1 #88 1 #90 1 • cerulean blue



90. 1 #88 1 white 1 • cadmium yellow light



91. 1 white 3 • cadmium yellow light 1 • ivory black 1 • cerulean blue



92. 3 cerulean blue 1 raw sienna 1 • Naples yellow



93. 1 permanent green light 2 • cadmium red light



94. 3 cadmium yellow medium 1 • Thalo[®] blue



95. 3 cadmium yellow light 1 permanent green light 3 • white



96. 1 #95 1 white



97. 3 cerulean blue 1 Naples yellow 1 cadmium orang



98. 1 cadmium yellow medium 1 • Thalo® blue 1 • cadmium red light



99. 1 #98 2 cadmium yellow light 1 • cadmium orange



100. 2 zinc yellow 2 • permanent green light 2 • cadmium orange 1 white

- Alizarin Crimson
- . Burnt Umber
- · Cadmium Orange
- · Cadmium Red Light
- · Cadmium Yellow Light
- · Cerulean Blue
- Cobalt Blue
- Ivory Black
- · Naples Yellow
- · Permanent Blue
- Titanium White
- · Yellow Ochre
- · Zinc Yellow



101. 5 white 1 permanent blue 1 • cadmium red light



102. 3 white 1 • cadmium red light 4 · permanent blue





103. 1 #101 1 permanent blue 2 • cadmium red light



104. 2 white 2 permanent blue 1 yellow ochre



105. 2.5 white 1 • cadmium orange



106. 10 white 1 permanent blue



107. 2 white 3 • permanent blue



108. 6 white 1 • Naples yellow



109. 4 white 1 cobalt blue



110. 2 white 4 • cerulean blue



111. 2 white 1 • cerulean blue 1 • Naples yellow



112. 2 #109 1 • ivory black



113. 3 white 2 • zinc yellow



114. 7 white 1 cerulean blue



115. 3 white 2 cobalt blue 3 • ivory black



116. 1 #115 3 • cobalt blue 2 • ivory black



117. 2 white 1 • cadmium orange



118. 1 white 1 • cadmium yellow light



119. 1 burnt umber 1 alizarin crimson



120. 1 white 2 • #119 2 • permanent blue

COLORS USED

- · Alizarin Crimson
- Burnt Umber
- · Cadmium Orange
- · Cadmium Red Light
- · Cadmium Yellow Light
- · Cadmium Yellow Medium
- Cerulean Blue
- · Cobalt Blue
- · Ivory Black
- Naples Yellow
- · Permanent Blue
- Raw Sienna
- · Raw Umber
- · Titanium White
- · Venetian Red
- · Zinc Yellow



121. 2 white 1 • permanent blue



122. 1 white 1 #121





123. 4 white

1 permanent blue 2 • cerulean blue



124. 2 white 1 cerulean blue



125. 3 white 3 cobalt blue 3 • ivory black



126. 1 #125



1 white 1 • cerulean blue



127. 3 white 3 • cerulean blue 2 • cobalt blue



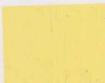
128. 3 white 2 • cobalt blue 2 • ivory black 1 • raw umber

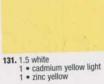


129. 4 white 2 • Naples yellow 1 • cadmium orange



130. 3 white 2 • Naples yellow





132. 2 white 2 • cadmium yellow med.



133, 2 #132 1 • cadmium red light



134. 2 white 3 • cadmium red light 2 • cadmium orange





135. 2 white 4 • cobalt blue 1 • Venetian red



136, 2 white 2 • cerulean blue 1 • #133 1 • raw sienna



137. 4 white 3 • alizarin crimson



138, 1 #137 1 • permanent blue



139. 1 white 1 • cadmium yellow light 1 • #137



140. 1 #137 2 • permanent blue 1 • burnt umber

COLORS USED

- · Alizarin Crimson
- Burnt Umber
- Cadmium Orange
- Cadmium Red Light
- Cadmium Yellow Light
- · Cobalt Blue
- Ivory Black Naples Yellow
- · Permanent Blue
- · Raw Umber • Thalo® Blue
- Titanium White
- Yellow Ochre



- 141. 1 white 1 burnt umber 1 alizarin crimson
- 142. 2 white
 1 Naples yellow
 1 alizarin crimson
 1 cadmium yellow light



143. 2 Naples yellow 2 • alizarin crimson 1 • burnt umber



- 144. 1 #143 1 alizarin crimson 1 permanent blue



- 145. 3 white 4 cadmium orange 1 alizarin crimson 2 cadmium red light



146. 2 #145 1 • permanent blue



- 147. 3 white 1 permanent blue 3 alizarin crimson 1 raw umber



148. 2 white 1 Naples yellow



149. 2 white 2 • Thalo® blue 1 • Ivory black



150. 1 #148 1 #149

151. 10 white 1 Thalo[®] blue 2 ivory black



152. 1 #151 3 • ivory black



153. 3 #148 1 #149

- 154, 2 white 1 raw umber 1 cobalt blue



- 155. 2 white 2 raw umber 1 cobalt blue



- 156. 2 white 4 burnt umber
 - 4 permanent blue



- 157. 4 white 1 cadmium orange 1 cobalt blue



158. 2 white 1 #157



159. 10 white 1 burnt umber



- 160. 8 white 1 yellow ochre 2 permanent blue

COLORS USED

- · Alizarin Crimson
- Burnt Sienna
- Burnt Umber
- · Cadmium Yellow Light
- · Cadmium Yellow Medium
- Cerulean Blue
- · Cobalt Blue
- · Ivory Black
- Naples Yellow
- Permanent Blue
- · Permanent Green Light
- · Raw Sienna
- · Raw Umber
- Thalo® Blue
- · Titanium White
- · Yellow Ochre



161. 8 cadmium yellow medium

1 Thalo® blue 2 • alizarin crimson



162. 2 Naples yellow 1 #161





163. 1 #162 4 • cadmium yellow light 4 • white



164. 2 white 2 • raw umber



165. 8 white

1 • yellow ochre 1 • cerulean blue



166. 2 white 3 • burnt umber



167. 1 white 1 raw umber 2 • ivory black



168. 8 white 1 • yellow ochre



169. 2 permanent green light 1 yellow ochre 2 • permanent blue



170. 1 Naples yellow 1 permanent green light



171. 1 white 1 cadmium yellow light 3 • permanent green light



172. 2 white 4 burnt umber 3 • cobait blue



173. 1 cobalt blue 2 Naples yellow



174. 2 cobalt blue 1 Naples yellow 1 white 3 • raw sienna



175, 1 white 2 • cobalt blue 2 • cerulean blue 1 • raw sienna



176. 1 raw sienna 1 cerulean blue 2 white



177. 2 #176 1 cerulean blue 3 • burnt sienna



178, 1 #176 3 • cadmium yellow light 1 white



179. 2 #176 1 cadmium yellow light 3 • Naples yellow



180, 2 white 2 • raw sienna 1 • cerulean blue 2 • Naples yellow

- Burnt Sienna
- · Burnt Umber
- Cadmium Yellow Light
- Cadmium Yellow Medium
- Cerulean Blue
- Cobalt Blue
- Naples Yellow
- Permanent Blue
- · Permanent Green Light
- Raw Sienna
- Thalo® Blue
- Titanium White
- Venetian Red
- Viridian Green
- Zinc Yellow



181. 2 white 1 raw sienna 1 • burnt sienna



182. 2 #181 1 burnt umber 2 burnt sienna



183. 6 burnt umber 1 Venetian red 4 ● permanent blue



184. 3 white 3 • viridian green 1 • #188



185. 2 permanent blue 2 cadmium yellow medium 3 • cadmium yellow light



186. 2 permanent blue 1 cadmium yellow light 2 Naples yellow 1 cadmium yellow medium



187. 1 #186 3 • cadmium yellow light 2 • white



188. 2 cerulean blue 1 cadmium yellow light 2 • white 1 • burnt sienna



189. 1 #188 2 Naples yellow



190. 1 zinc yellow 2 • #189 2 white 2 • cobalt blue



191. 2 permanent blue 2 cadmium yellow medium 3 • Thalo® blue 3 • burnt sienna



192. 2 #191 1 cadmium yellow medium



1 cadmium yellow light 1 • white



194. 1 permanent green light 2 • cadmium yellow med.





196. 1 permanent green light 2 cadmium yellow light 1 • white



197. 1.5 cadmium yellow light 2 permanent blue





199. 1 #197 1 cadmium yellow light 1 • white



200. 1 cadmium yellow medium 1 Thalo[®] blue 1 white

COLORS USED

- Burnt Sienna
- . Burnt Umber
- · Cadmium Yellow Light
- Cadmium Yellow Medium
- Cerulean Blue
- · Cobalt Blue
- · Cobalt Violet
- · Ivory Black
- Naples Yellow
- · Permanent Blue
- Permanent Green Light
- Raw Umber
- Titanium White
- Viridian Green
- · Yellow Ochre



201. 2 white 1 permanent green light



202. 3 viridian green 1 cadmium yellow medium



203. 2 permanent blue 1 cadmium yellow light 2 Naples yellow 1 cadmium yellow medium



204. 1 #203 1 Naples yellow



205. 1 #204 1 Naples yellow 2 • white



206. 2 white 2 • raw umber 1 • burnt umber



207. 3 white 1 raw umber



208. 2 white 1 • burnt umber



209. 3 white 1 • ivory black



210. 3 white 3 • ivory black 1 • raw umber



211. 8 white 1 ivory black 1 • cerulean blue



212. 5 white 1 • yellow ochre



213. 1 white 4 • cobalt violet 2 • burnt umber 1 • cobalt blue



214. 1 burnt umber 1 cobalt blue 2 white 1 • burnt sienna



215. 2 white 2 • #214



216. 2 white 1 burnt umber 1 permanent blue



217. 1 white 2 • burnt umber 1 • permanent blue



218. 4 white 1 #217 1 • cobalt violet



219. 1 white 1 burnt umber 1 burnt sienna 1 ivory black



220. 5 white 1 burnt sienna 1 burnt umber

COLORS USED

- Alizarin Crimson
- Burnt Sienna
- Burnt Umber
- Cadmium Yellow Light
- Cadmium Yellow Medium
- · Cobalt Blue
- Cobalt Violet
- Ivory Black
- Naples Yellow
- Permanent Blue
- · Permanent Green Light
- Raw Sienna
- · Raw Umber
- Thalo® Blue
- · Titanium White
- Viridian Green
- · Yellow Ochre
- · Zinc Yellow



- 221. 4 white 1 #220 2 cobalt blue 1 raw sienna



222. 2 ivory black 2 permanent blue 1 white



223. 1 white

4 • ivory black 1 • burnt sienna



224. 1 burnt umber

- 1 burnt sienna 1 white 3 permanent blue



225. 2 permanent green light
2 • Thalo® blue
2 • cadmium yellow med.
2 • white



226. 2 viridian green 1 cadmium yellow light



227. 1 #226 2 zinc yellow



228. 2 #225

1 white 1 • zinc yellow



229. 1 #225 1 white 1 zinc yellow 2 cadmium yellow light



230. 1 white 1 Naples yellow 1 • permanent blue

- 231. 2 white 5 raw umber 5 Naples yellow 1 burnt sienna



- 232. 2 white 2 zinc yellow 1 raw umber



233. 2 white

1 raw umber 1 permanent green light



234. 1 white



235. 1 #234 3 • alizarin crimson



236. 1 white 3 • ivory black



- - 1 #136 1 burnt sienna



238. 2 white

- 1 ivory black
 3 permanent blue
 2 cobalt violet



239. 3 #238 2 #237



240. 6 white

- 4 yellow ochre 1 permanent blue

- Alizarin Crimson
- Burnt Umber
- · Cadmium Orange
- · Cadmium Red Light
- Cadmium Vermillion
- · Cadmium Yellow Light
- · Cobalt Violet
- · Ivory Black
- Naples Yellow
- · Permanent Blue
- Thalo® Blue
- Thalo® Green (Blue shade)
- Thalo® Red Rose
- · Titanium White
- Yellow Ochre
- Zinc Yellow



- 241. 2 white 3 yellow ochre 1 permanent blue



242. 2 burnt umber 1 Thalo® blue

- 4 white 2 Naples yellow



- 243. 2 burnt umber 2 Thalo® blue 5 Naples yellow 2 white



244. 4 white 1 cadmium vermilion



245. 1 yellow ochre 1 cadmium red light



246, 2 Naples yellow 1 cadmium yellow light 2 • cadmium orange



247. 1 white 4 alizarin crimson 2 • cadmium red light



248. 1 white 2 • cadmium vermillon



249, white



250. 6 Naples yellow 1 cadmium orange 1 white



251. 2 white 4 • cadmium orange



252. 3 zinc yellow 1 • cobalt violet



253. 3 white 1 Thalo® red rose



254. 3 ivory black 2 white 1 cobalt violet



255. 1 cadmium yellow light 3 • alizarin crimson



256. 2 zinc yellow 2 • cadmium orange



257. 2 permanent blue 1 burnt umber 4 white



258. ivory black



259. 1 white 2 • Thalo® blue



260, 2 white 2 • Thalo® green (blue shade)

COLORS USED

- · Alizarin Crimson
- · Burnt Umber
- Cadmium Vermillion
- Cerulean Blue
- · Cobalt Blue
- · Cobalt Violet
- Ivory Black
- Magenta
- · Permanent Blue
- Permanent Green Light
- Raw Umber
- Thalo® Red Rose
- · Titanium White
- Viridian Green



- 261. 1 white 4 permanent blue 1 burnt umber 1 alizarin crimson



262. 2 white 1 #261 1 • cerulean blue



- 263. 1 white 1 raw umber 2 cobalt blue



- 264. 1 white 2 cobalt blue 2 cadmium vermilion



265. 1 #264 1 • ivory black



266. 1 white 2 • magenta



267. 6 cobalt violet 3 white 1 permanent blue



268. 2 white 1 cobalt violet 2 • permanent blue



269. 2 white 3 permanent blue 1 Thalo® red rose



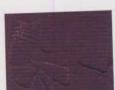
270. 5 cobalt violet 1 white 2 • permanent blue



271. 3 white 1 • cerulean blue



272. 8 white 1 cobalt violet



273. 3 cobalt violet
1 white
2 * burnt umber
1 * permanent blue



274. 1 #273 1 #272



275. 1 white 2 • cobalt violet



276. 10 white 1 burnt umber



277. 2 white 1 burnt umber



278. 1 white 1 • viridian green 1 • raw umber

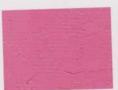


279. 1 #278 1 • permanent green light



- 280. 1 white 1 cerulean blue 3 ivory black

- Alizarin Crimson
- Cadmium Orange
- · Cadmium Red Light
- · Cadmium Vermilion
- · Cadmium Yellow Light
- · Cadmium Yellow Medium
- · Cobalt Violet
- Magenta
- Thalo® Red Rose
- · Titanium White
- · Zinc Yellow



281. 1 white 4 • Thalo® red rose



282. 1 #281 4 • alizarin crimson



283. 2 zinc yellow 1 cadmium orange



284. 2 white 1 cadmium red light



285. 2 cadmium yellow light 1 white



286. 2 cadmium yellow light 2 • cadmium orange 1 white



287. 1 white 1 • cadmium vermilion



288. 1 white 2 • Thalo® red rose



289. 4 Thalo® red rose 1 white



290. 1 white 3 • alizarin crimson



291. 2 magenta 1 white



292. 1 white 2 • Thalo[®] red rose 2 • cobalt violet



293. 5 white 1.5 cadmium yellow med. 1 zinc yellow



294. 3 magenta



295. 1 white 1 cadmium vermilion



296. 20 white 1 alizarin crimson



297. 8 white 8 Thalo® red rose 4 cobalt violet



298. 8 white 8 Thalo® red rose 1 cobalt violet



299. 7 white 1 cadmium red light



300. 1 white 1 zinc yellow

- Alizarin Crimson
- . Burnt Umber
- Cadmium Orange
- . Cadmium Red Light
- · Cadmium Vermillion
- · Cadmium Yellow Light
- · Cadmium Yellow Medium
- Cerulean Blue
- Ivory Black
- · Naples Yellow
- · Permanent Blue
- · Permanent Green Light
- Raw Sienna
- Raw Umber
- · Viridian Green
- Zinc Yellow



301. 5 white 5 Naples yellow 3 cadmium yellow light



302. 1 cadmium yellow med. 1 • viridian green



303. 3 Naples yellow 1 • cadmium orange 1 • cerulean blue



304. 6 Naples yellow 1 cadmium orange 1 white



305, 1 white

- 1 permanent blue 2 alizarin crimson 2 burnt umber



306. 1 #305 1 • alizarin crimson



307. 1 cadmium orange 1 cerulean blue



308. 3 Naples yellow 1 cadmium orange 4 · cerulean blue



309. 5 white 3 yellow ochre 2 • permanent blue



310. 4 white 2 Naples yellow 1 cadmium yellow light



311. 1 white 2 • raw sienna 2 • zinc yellow



312, 1 white 2 • cadmium orange 3 • permanent green light



313. 1 white 3 cadmium orange 6 permanent green light



314. 1 white 3 cadmium vermilion 1 • ivory black



315. 2 cadmium vermilion 1 ivory black



316. 4 white 1 cadmium orange 3 permanent green light



317. 1 cadmium orange 3 permanent green light 1 white



318. 3 permanent green light 2 • cadmium red light



319, 2 white 1 yellow ochre 2 • cerulean blue



320. 8 white 1 raw umber 1 • permanent blue 1 • yellow ochre

- Alizarin Crimson
- Burnt Umber
- · Cerulean Blue
- · Cobalt Violet
- · Ivory Black
- Naples Yellow
- Permanent Blue
- Raw Sienna
- · Raw Umber
- Thalo® Blue
- Thalo® Green (Blue shade)
- Thalo® Red Rose
- . Titanium White



321. 1 white 1 • Thalo® green (blue shade)



322. 2 white 1 ivory black 6 cerulean blue



323. 1 white 2 • Thalo® blue 1 raw sienna



324. 3 cerulean blue 1 white 2 • alizarin crimson



325. 2 white 3 permanent blue 2 • Thalo® red rose



326. 2 white 1 • Thalo® blue



327. 1 cerulean blue 1 permanent blue 1 white



328. 1 #327 1 • raw umber



329. 2 white 1 permanent blue 1 • burnt umber 1 • alizarin crimson



330. permanent blue (pure)



331. 1 permanent blue 1 white 2 • Thalo® red rose



332. 1 white 4 • cobalt violet 1 • permanent blue



333. 2 permanent blue 1 cerulean blue 1 white



334. 1 #333 1 • burnt umber 1 • alizarin crimson



335. 2 white 1 Naples yellow 2 • Thalo® blue 1 • burnt umber

- · Alizarin Crimson
- Burnt Sienna
- Burnt Umber
- Cadmium Orange
- Cadmium Yellow Medium
- Cerulean Blue
- · Cobalt Violet
- Ivory Black
- · Naples Yellow
- Permanent Blue
- Permanent Green Light
- Raw Sienna
- Titanium White
- Venetian Red



336. 6 white 1 burnt umber



337. 2 white 1 burnt umber



338. 1 white 2 • burnt sienna



- 339. 1 white 2 cadmium orange 1 cerulean blue





340. 3 white 1 raw sienna 1 • permanent blue





- 341. 1 #340 1 burnt sienna 1 permanent blue



- 342. 1 white 1 cadmium orange 2 Naples yellow



- 343. 1 white 3 Naples yellow 1 cobalt violet



344. 3 white

- 1 alizarin crimson 1 permanent blue



345. 1 #344

- 2 white 2 cadmium orange



- 346. 1 #344 2 ivory black 2 permanent blue



347. 3 white

- - 1 #345 1 cadmium orange



348. 4 cadmium yellow medium 2 cobalt violet 2 • permanent blue



349. 1 Venetian red 5 Naples yellow 1 permanent green light



350. 2 cerulean blue 1 cadmium orange

COLORS USED

- · Burnt Sienna
- Cadmium Orange
- Cadmium Red Light
- Cadmium Vermillion
- · Cadmium Yellow Light
- Cadmium Yellow Medium
- Naples Yellow
- · Permanent Blue
- Raw Sienna
- Thalo® Green (Blue shade)
- Thalo® Red Rose
- Titanium White
- · Viridian Green



351. 16 white 1 cadmium orange 1 Naples yellow



352. 1 white 3 • Thalo® red rose



353. 2 white 1 • cadmium vermilion



354. 3 white 1 • burnt sienna



355. 2 white 1 • cadmium yellow med.



356. 2 white 2 • Naples yellow 1 • viridian green



- 357. 2 white 1 Thalo® green (blue shade) 3 Naples yellow



358. 2 white 4 • Naples yellow 2 • viridian green



359. 1 #355 2 white 1 • permanent blue



360. 2 white
2 • cadmium yellow med.
2 • Naples yellow



361. 2 white 2 • raw sienna



362. 4 white 1 • raw sienna



363. 1 white 2 Naples yellow 1 • cadmium red light



364. 1 #363 1 Naples yellow 1 • cadmium yellow med.



COLORS USED

- Burnt Sienna
- Burnt Umber
- · Cadmium Orange
- · Ivory Black
- · Naples Yellow
- Permanent Blue
- Raw Sienna
- Raw Umber
- · Titanium White
- Venetian Red
- · Yellow Ochre



366. 2 white

1 raw umber 1 cadmium orange



367. 1 #366 1 white



368. 3 white 1 raw umber



369. 2 #368 1 yellow ochre 1 white



370. 2 white 1 burnt umber 1 • cadmium orange



371. 6 white 1 raw umber



372. 2 ivory black 1 permanent blue



373. 2 burnt sienna 1 Venetian red 4 raw sienna



374. 3 white
1 burnt umber
1 • cadmium orange
4 • permanent blue



375. 2 ivory black 1 burnt umber 1 white



376. 1 #373 2 Naples yellow 1 white



377. 7 white 2 burnt umber 1 raw sienna



378. 3 white

1 burnt sienna 1 burnt umber



379. 1 #378 2 white 2 • permanent blue



380. 2 white 2 yellow ochre 1 • burnt umber

COLORS USED

- Alizarin Crimson
- Burnt Umber
- · Cadmium Orange
- · Cadmium Red Light
- Cadmium Yellow Medium
- Cobalt Blue
- · Cobalt Violet
- Naples Yellow
- Permanent Blue
- Thalo® Blue
- Thalo® Green (Blue shade)
- Thalo® Red Rose
- . Titanium White
- Viridian Green
- Yellow Ochre
- · Zinc Yellow



381. 2 white 1 • Thalo® green (blue shade)



382. 2 white 1 • Thalo® green (blue shade)

(blue shade)
3 • Naples yellow
1 • burnt umber



383. 2 white 1 • Thalo® blue 1 • burnt umber



384. 8 white 1 • Thalo® green (blue shade)



385. 3 white 1 • burnt umber 2 • permanent blue



386. 1 white 2 • cobalt blue 1 • cadmium red light



387. 12 white 1 cadmium orange 1 • Thalo® red rose



388. 4 white 1 • cadmium orange 1 • zinc yellow



389. 6 white 2 yellow ochre 1 permanent blue



390. 2 white 1 #389 1 yellow ochre



391. 8 white 1 cadmium yellow medium 1 • viridian green



392. 2 white 1 cadmium yellow medium 1 • cobalt violet



393. 1 white 4 Thalo® red rose 3 cobalt violet



394. 1 white 6 cobalt violet 1 permanent blue



395. 2 white 1 permanent blue 3 • alizarin crimson 2 • burnt umber

- Alizarin Crimson
- Burnt Sienna
- . Burnt Umber
- Cadmium Orange
- · Cadmium Red Light
- · Cadmium Yellow Light
- Cerulean Blue
- Cobalt Violet
- Naples Yellow
- · Permanent Blue
- Thalo® Red Rose
- Titanium White
- Viridian Green
- Yellow Ochre
- · Zinc Yellow



396. 1 burnt umber 1 alizarin crimson 2 white



397. 2 #396 2 yellow ochre 1 white



398. 2 #396 1 permanent blue



399. 2 white 1 permanent blue 2 • cadmium red light



400, 2 white 1 • cadmium red light 2 • Naples yellow



401. 2 white
1 • cadmium red light
1 • permanent blue



402. 1 white 1 • cadmium orange



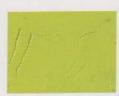
403. 2 zinc yellow 4 cobalt violet



404. 8 cerulean blue 12 Naples yellow 1 cadmium orange



405. 2 Naples yellow 1 • cerulean blue 1 • cadmium orange



406, 5 white 1 cadmium yellow light 2 • cerulean blue



407. 4 white 6 cadmium yellow light 2 cerulean blue 1 viridian green



408. 2 Naples yellow 2 burnt sienna 1 • cadmium red light



409. 4 white 6 Thalo® red rose 4 cobalt violet



410. 1 white 5 Thalo® red rose 4 cobalt violet

- Alizarin Crimson
- Cadmium Orange
- Cadmium Red Light
- Cadmium Vermillion
- Cadmium Yellow Light
- Cobalt Violet
- Ivory Black
- Magenta
- Raw Sienna
- Thalo® Red Rose
- Venetian Red
 - Zinc Yellow
- Titanium White



411. 4 white 5 cobalt violet 1 • Thalo® red rose



412. 15 white 1 magenta



413. 5 white 1 Thalo® red rose 3 • cobalt violet



414. 4 cobalt violet 1 white 1 • Thalo® red rose



415. 1 white 3 alizarin crimson



416. 3 white 1 Venetian red



417. 1 cadmium red light 1 raw sienna



418. 2 cadmium vermilion 1 alizarin crimson



419, 2 white 4 cadmium red light



420. 2 cadmium red light 1 cadmium vermilion



421. 2 white
1 • cadmium red light
1 • cadmium orange



422. 2 white 4 cadmium red light 6 zinc yellow



423. 7 alizarin crimson 9 cadmium yellow light 1 white



424. 3 cadmium red light 1 ivory black



425. 1 cadmium red light 1 white 2 • ivory black

- Alizarin Crimson
- Burnt Umber
- Cadmium Orange
- · Cadmium Red Light
- · Cadmium Yellow Light
- Cadmium Yellow Medium
- Naples Yellow
- Permanent Blue
- Thalo® Red Rose
- Titanium White
- · Yellow Ochre
- Zinc Yellow



426. 2 yellow ochre 1 cadmium red light 3 cadmium yellow light



427. 2 cadmium orange 2 • alizarin crimson



428. 1 cadmium orange 2 • cadmium yellow light



429. 4 white 3 cadmium orange



430. 10 white 2 cadmium orange 1 zinc yellow



431. 5 cadmium yellow light 1 cadmium orange



432. 1 cadmium orange 1 Naples yellow



433. 1 cadmium orange 1 Naples yellow 1 cadmium yellow light



434. 1 cadmium orange 2 • burnt umber



435. 9 zinc yellow 2 cadmium orange



436. 3 cadmium orange 1 permanent blue



437. 8 white 2 cadmium red light 14 zinc yellow



438. 1 #437 2 • cadmium red light



439. 2 cadmium orange 2 • Thalo® red rose



440, 2 cadmium yellow medium 1 • cadmium orange

- · Alizarin Crimson
- · Burnt Sienna
- · Burnt Umber
- · Cadmium Orange
- · Cadmium Red Light
- Cadmium Vermillion
- · Cadmium Yellow Light
- Cerulean Blue
- · Cobalt Violet
- Ivory Black
- Naples Yellow
- Permanent Blue
- · Titanium White
- Venetian Red
- Zinc Yellow



441. 2 zinc yellow 1 cerulean blue 1 cadmium orange



442. 8 cerulean blue 12 Naples yellow 1 cadmium orange



443. 1 white 1 cadmium yellow light 1 • ivory black



444. 3 white 1 permanent blu 5 cobalt violet



445. 6 cobalt violet



1 dizarin crimson 1 alizarin crimson 4 permanent blue 3 white



447. 2 white
1 ivory black
1 • cadmium vermilion



448. 1 white 3 • permanent blue 1 • burnt umber



449. 5 permanent blue 3 white 1 burnt umber



450. 1 #447 2 • cerulean blue



451. 2 white 2 permanent blue 1 alizarin crimson



452. 1 white 1 Venetian red 3 permanent blue



453. 1 cadmium orange 2 cerulean blue



454, 2 white 12 Naples yellow 1 cadmium red light 2 burnt sienna



455. 1 burnt umber 1 alizarin crimson 2 permanent blue 6 white

COLORS USED

- · Alizarin Crimson
- · Cadmium Orange
- · Cadmium Red Light
- · Cadmium Yellow Light
- · Cadmium Yellow Medium
- · Naples Yellow
- · Titanium White
- · Zinc Yellow



456. 3 Naples yellow 1 • cadmium orange 1 • cerulean blue



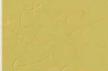
457. 4 white 4 Naples yellow 1 cadmium yellow light



- 458. 4 white 1 Naples yellow 2 cadmium yellow light



459. 6 white 1 Naples yellow 1 • cadmium yellow light



460. 4 white 3 Naples yellow 1 • cerulean blue



461. 1 white 1 cadmium yellow light



462. 1 white 1 zinc yellow



463. 5 white 1 cadmium yellow medium



464. 3 white 1 cadmium yellow medium



465. 7 zinc yellow 2 cadmium orange



466. 4 white 1.5 cadmium orange



467. 1.5 white 2 cadmium yellow medium



468. 8 white 2 cadmium red light 4 zinc yellow

469. 2 #468 1 cadmium red light



470. 11 white

3 alizarin crimson 5 cadmium yellow light

- · Alizarin Crimson
- · Burnt Umber
- Cadmium Orange
- · Cadmium Red Light
- · Cadmium Yellow Light
- · Cadmium Yellow Medium
- Cadmium Vermillion
- Cerulean Blue
- Cobalt Violet
- · Ivory Black
- Naples Yellow
- Permanent Blue
- · Permanent Green Light
- · Titanium White
- · Yellow Ochre



471. 2 alizarin crimson 1 cadmium red light



472. 5 cadmium orange 1 cerulean blue



473. 3 white 1 ivory black 2 cadmium vermilion 2 • cadmium orange



474. 1 white 1.5 cadmium vermilion 1 • cadmium red light



475. 3 white 1 cadmium vermilion 1 • cadmium red light



476. 2 cadmium red light 2 permanent green light 1 burnt umber



477. 1 Naples yellow 2 • #476 2 • white



478. 1 #477 1.5 white



479. 1 cadmium yellow medium 3 cobalt violet



480. 2 ivory black 1 alizarin crimson 3 Naples yellow



481. 4 white 2 ivory black 1 cerulean blue



482, 2 cadmium yellow light 1 • ivory black



483. 4 cadmium yellow light 1 ivory black



484. 4 white 1 cadmium orange 3 permanent green light



485. 6 white 3 yellow ochre 1 permanent blue

COLORS USED

- · Alizarin Crimson
- · Burnt Umber
- · Cadmium Yellow Light
- · Cerulean Blue
- Ivory Black
- · Naples Yellow
- Permanent Blue
- Thalo® Blue
- Thalo[®] Red Rose
- · Titanium White
- · Viridian Green
- · Zinc Yellow



- 3 permanent blue 1 ivory black 1 alizarin crimson



487. 1 white 4 permanent blue 2 Thalo® red rose





489. 1 white 2 Thalo® red rose 1 permanent blue



490. 1 cerulean blue 1 permanent blue



491. 2 cerulean blue 1 ivory black



492. 2 white

1 permanent blue 1 • burnt umber





494, 1 cerulean blue 1 permanent blue 2 white



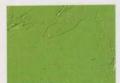
- 495. 1 white 1 Thalo® blue 2 Naples yellow



496. 2 #495 1 cadmium yellow light



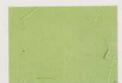
497. 1 white 1 cadmium yellow light 1 viridian green



498. 1 #497 2 white



499. 1 white 2 • viridian green



- 500. 1 #499 2 white 1 zinc yellow

- Alizarin Crimson
- Cadmium Red Light
- · Cadmium Yellow Light
- Cadmium Yellow Medium
- · Cerulean Blue
- Ivory Black
- Naples Yellow
- Titanium White
- Viridian Green
- Venetian Red
- Zinc Yellow



501. 1 white 3 • Naples yellow



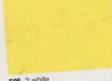
502. 5 #501 1 • Venetian red



503. 1 white 1 #502 2 • cerulean blue



504. 1 white 3 #503 1 • cadmium red light 1 • ivory black



505. 2 white 1 • cadmium yellow light



506. 1 #505 2 Naples yellow



507. 1 #506 1 • alizarin crimson



508. 1 #507 1 • alizarin crimson



509. 2 white 3 • cerulean blue 1 • viridian green



510. 1 white 4 • viridian green 2 • cadmium red light



511. 1 white 3 • cerulean blue



512. 2 white 1 #511 1 • cadmium yellow med.



513. 1 white 1 #512 1 • zinc yellow



514. 2 white 1 cadmium yellow medium



515. 1 #514 3 • cadmium red light 1 • alizarin crimson

COLORS USED

- Alizarin Crimson
- Burnt Sienna
- Burnt Umber
- · Cadmium Orange
- · Cadmium Yellow Light
- · Cadmium Yellow Medium
- · Naples Yellow · Titanium White
- · Yellow Ochre
- · Zinc Yellow



516. 1 cadmium yellow light 2 • white



517. 1 zinc yellow 2 • white



518. 2 white 1 zinc yellow 1 • cadmium orange



519. 2 cadmium yellow light 1 • burnt umber



520. 3 zinc yellow 1 • burnt umber



521. 2 cadmium yellow medium 1 • burnt umber



522. 5 cadmium yellow medium 1 • alizarin crimson



523. 2 cadmium yellow light 1 Naples yellow 1 white



524. 2 cadmium yellow light 1 • burnt sienna



525. 2 cadmium yellow light 1 • cadmium orange



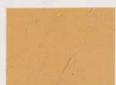
526. 2 white 1 #525



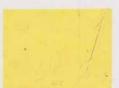
527. 1 #523 1 #525



528. 4 white 1 Naples yellow



529. 5 white 1 yellow ochre



530. 14 white 1 cadmium yellow medium 1 zinc yellow

LEGEND

Colors are indexed by recipe unless "page" is noted. Recipe numbers are identical in both the Oil & Acrylic and Watercolor sections. Watercolor-only recipes appear in italics. Oil & Acrylic-only recipes appear in bold.

Whiter: More white or water than color.

Lighter: Lighten color a bit with white or water.

Deeper: Deepen with darkest color in mix and use less water for watercolor.

Acacia 268, 320 Acorn Brown 313, 341, 386

Adobe Brown 208 **Buff 196**

Tan 198

Agate

Black 105 Brown 150

> Gray 142 Green 104

Red 213

Yellow 13 Alabaster Pink 331

Alizarin Crimson, Page 40, Page 70

Almond

Brown 210

Burnt 381 Cream 286

Green 287

Wood 275

Amber

Brown 387

Golden 366

Light 389

Tan 372 Yellow 361

Amethyst French 182

Light 181

Orchid 174

Violet 178

Antelope Tan 77, 289

Apple

Green 385

Red 216, 238

Yellow 3

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Whiter: More white or water than color.

Lighter: Lighten color a bit with white or water.

Deeper: Deepen with darkest color in mix and use less water for watercolor.

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Lighter: Lighten color a bit with white or water.

Deeper: Deepen with darkest color in mix and use less water for watercolor.

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Lighter: Lighten color a bit with white or water.

Deeper: Deepen with darkest color in mix and use less water for watercolor.

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LEGEND

Whiter: More white or water than color.

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Deeper: Deepen with darkest color in mix and use less water for watercolor.

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Lighter: Lighten color a bit with white or water.

Deeper: Deepen with darkest color in mix and use less water for watercolor.

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LEGEND

Whiter: More white or water than color.

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- + Mix listed recipe colors together for one resultant color & Use all listed color mixes individually on the scene
- , Multiple recipes separated by a comma indicates a variation of selections

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- + Mix listed recipe colors together for one resultant color
- & Use all listed color mixes individually on the scene
- , Multiple recipes separated by a comma indicates a variation of selections

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Mountain Scene Colors (Many Skies & Clouds, Sky Moods, and foreground subjects can be combined harmoniously with the following mountain colors)

LEGEND

- + Mix listed recipe colors together for one resultant color
- & Use all listed color mixes individually on the scene , Multiple recipes separated by a comma indicates a variation of selections

	Candy 424	Yellow 246 Alabaster Rock Pink 248
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Mto Base Color 336	Light 433	Gray 216
Mtn Light Color 338 & 339	Muted 434	Red 19
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*** Page Haze 339	Peel 435	Grav
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Mtn Base Color 101	Rich 437	Secondary Color
Mtn Light Color 102	Strong 439	Light Color 208
Mtn Shadow Color 103	Tinted 430	Dark Color 216
Atta Doco Haze 106	V-N-11 A21 AAD	Tan
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Mtn Light Color 345 & 347	Mauve Bluish 444	Main Rock Color
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LEGEND

Mix listed recipe colors together for one resultant color

& Use all listed color mixes individually on the scene

Multiple recipes separated by a comma indicates a variation of selections

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Dark Color 68

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Light Color 60 Dark Color 48

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Daybreak Pinkish Sky

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LEGEND

- + Mix listed recipe colors together for one resultant color
- & Use all listed color mixes individually on the scene , Multiple recipes separated by a comma indicates a variation of selections

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LEGEND

- Mix listed recipe colors together for one resultant color
- Use all listed color mixes individually on the scene
- Multiple recipes separated by a comma indicates a variation of selections

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(Colors for Time-of-Day Color Control)

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Early Morning Cool 462 Late Afternoon Warm

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Cadmium Yellow Medium 464

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Cadmium Yellow Medium 463

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Alizarin Crimson 471

Cadmium Orange 465

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Terra Cotta 373

Thistle

Gray 395

Purple 394

Tomato

Red 474

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Gray Green Underbark 278,

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Coniferous Tree Underbark Colors

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Acacia Tree (Catclaw)

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Medium 89

Light 90

Trunk Colors

Bark (Scaly)

Basic 52

Secondary 52 + 56 Dark 26

Light 34

Alder Tree (Red)

Foliage Colors

Dark 188 Medium 189

Light 190

Trunk Colors

Bark (Blotchy Scales)

Basic 209

Secondary 210

Dark 211

Light 212

Almond Tree

Foliage Colors

Dark 185 Medium 186

Light 187

Trunk Colors

Bark (Vertical furrows with

horizontal cracks)

Basic 213

Secondary 213 + 215

Dark 214

Light 215

Apple Tree

Foliage Colors

Dark 185

Medium 186

Light 187

Trunk Colors Bark (Scaly Older)

Basic 210

Secondary 210 + 216 Dark 216

Light 215

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Green 404, 405, 406, 407

Red 471

Yellow 365 Apple Blossom (Pink) 137

Apricot Tree

Foliage Colors

Dark 169 Medium 170

Light 171

Trunk Colors Bark (Ridged, Fissured)

Basic 223 Secondary 222 + 223

Dark 222

Light 221

Ash Tree (White)

Foliage Colors

Dark 161

Medium 162

Light 163 Trunk Colors

Bark (Elongated diamond

ridged pattern)

Basic 166 Secondary 166 & 167

Dark 167

Light 168

Aspen (Quaking)

Foliage Colors

Dark 161

Medium 162

Light 163

Trunk Colors Bark (Smooth with black

horizontal wart/scar marks)

Basic 166 Secondary 166 & 167

Dark 167

Light 168

Beech Tree (American)

Foliage Colors

Dark 194

Medium 195 Light 196

Trunk Colors Bark (Smooth)

LEGEND

- + Mix listed recipe colors together for one resultant color & Use all listed color mixes individually on the scene , Multiple recipes separated by a comma indicates a variation of selections

0.1.455	Dark 222	Dark 216
Basic 155 Secondary 155 + 156	Light 223	Light 209
	Blossom Pink 287	Eucalyptus Tree
Dark 156	Chestnut Tree (American)	Foliage Colors (General)
Light 154	Foliage Colors	Dark 177
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Foliage Colors	Medium 162	Light 179
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Medium 186	Trunk Colors	Reddish Leaf Color 235
Light 187	Bark (Flat scaly ridges)	Trunk Colors
Trunk Colors	Basic 217	Bark (Peeling strips)
Bark (Peeling in strips)	Secondary 217 + 216	Basic 180 & 184
Basic 168	Dark 216	Secondary 180 + 181
Secondary 166 + 168	Light 215	Dark 182 & 183
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Light 165	Cottonwood Tree	Fir Tree (Douglas)
Blue Spruce Tree	Foliage Colors	Foliage Colors
Foliage Colors	Dark 225	Dark 194
Dark 173	Medium 228	Medium 195
Medium 174	Light 229	Light 196
Light 163	Trunk Colors	Trunk Colors
Trunk Colors	Bark (Ridged, furrowed)	Bark (Thick, furrowed)
Bark (Scaly Dark Gray)	Basic 217	
Basic 38	Secondary 217 + 218	Basic 220 Secondary 220 + 216
Secondary 38 + 26	Dark 216	
Dark 26	Light 218	Dark 216
Light 56	Cypress Tree	Light 208
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Foliage Colors	Dark 193	Foliage Colors
Dark 226	Medium 189	Dark 186
Medium 227	Light 190	Medium 187
Light 229	Trunk Colors	Light 199
Trunk Colors	Bark (Fibrous/scaly)	Trunk Colors
Bark (Fissured & Scaly)	Basic 208	Bark (Deep furrowed scales)
Basic 207	Secondary 208 + 217	Basic 213
Secondary 207 + 216	Dark 217	Secondary 213 + 219
Dark 216	Light 215	Dark 219
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Light 208	Foliage Colors	Hickory Tree (Black)
Cedar Tree	Dark 194	Foliage Colors
Foliage Colors	Medium 195	Dark 188
Dark 81	Light 190	Medium 202
Medium 98	Trunk Colors	Light 201
Light 100	Bark (Scaly bumps)	Trunk Colors
Trunk Colors	Basic 220	Bark (Deep furrows)
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Medium 226		Light 229
Light 227	Medium 227	Trunk Colors
- Trunk Colors	Light 229	Bark (Thin, Gray, variety of
Bark (Young, reddish brown	Trunk Colors	bumps)
with lenticels, Old, scaly	Bark (Vertical ridges)	Basic 211
lenticels brown/black)	Basic 210	Secondary 211 + 216
Basic 224	Secondary 210 + 216	Secondary 211 7 210

LEGEND

+ Mix listed recipe colors together for one resultant color

& Use all listed color mixes individually on the scene

, Multiple recipes separated by a comma indicates a variation of selections

Dark 216 Light 210 Holly Berry 471 Juniper Tree (Western) Foliage Colors Dark 191 Medium 192

Light 189 Trunk Colors

Bark (Long Interlacing Ridges)

Basic 23 Secondary 23 + 39

Dark 26 Light 39

Joshua Tree Foliage Colors Dark 185

Medium 187 Light 190 Trunk Colors

Bark (Long Plates) Basic 213

Secondary 213 + 208

Dark 216 Light 208

Laurel Tree (Sassafras) Foliage Colors

Dark 226 Medium 227

Light 229 Trunk Colors

Bark (Bumpy, furrows)

Basic 52 Secondary 52 + 68

Dark 51 Light 68

Magnolia Tree Foliage Colors

Dark 185 Medium 186 Light 187

Trunk Colors Bark (Scaly)

Basic 213 Secondary 213 + 217

Dark 219 Light 217

Magnolia Flower White 212, 249

Maple Tree (Sugar)

Foliage Colors Dark 226 Medium 227 Light 229

Flaming Red 416, 417 Flaming Yellow 461, 464,

467 Trunk Colors

Bark (Mature, scaly, slightly furrowed)

Basic 236 Secondary 239

Dark 238

Light 237

Mesquite Tree (Velvet) **Foliage Colors** Dark 186

Medium 187 Light 190

Trunk Colors Bark (Shaggy) Basic 236

Secondary 236 + 218

Dark 216 Light 218

Mulberry Tree Foliage Colors

Dark 185 Medium 186

Light 187 Trunk Colors

Bark (Mature, scaly) Basic 38

> Secondary 27 + 38 Dark 27

Light 36 Mulberry Fruit 393

Oak Tree (Black) Foliage Colors

Dark 97 Medium 98

Light 99 & 100 Trunk Colors

Bark (Ridged, furrowed)

Basic 38 Secondary 27 + 38

Dark 27 Light 36

Brown Bark 44 White Bark 71

Oakwood Gray 164

Olive Tree

Foliage Colors Dark 88

Medium 89 Light 90 & 91

Trunk Colors Bark (Scaly)

Basic 206 Secondary 206 + 207

Dark 207 Light 208

Olive Fruit Brownish 452

Drab 453 Greenish Dark 97 & 98 Palm Tree (Date)

Foliage Colors

Dark 93

Medium 94,

Light 95 & 96

Trunk Colors

Bark (rough from cut dead

fronds)

Basic 21

Secondary 21 + 27

Dark 27 Light 40

Palm Date Brown

Dark 452 Light 454

Palm Tree (Queen/King)

Foliage Colors

Dark 93

Medium 94, Light 95 & 96

Trunk Colors

Bark (smooth, ringed at

bottom, rough from cut dead

fronds at top)

Basic 208 Secondary 208 + 217

Dark 217

Light 215 Peach Tree

Foliage Colors

Dark 225 Medium 226

Light 227

Trunk Colors

Bark (Scaly, Young has Lenticels resembling lips)

Basic 237

Secondary 237 + 216

Dark 216

Light 215

Blossom Pink 288, 352

Cream 388 Pink 387

Pecan Tree Foliage Colors

Dark 226 Medium 227

Light 229

Trunk Colors

Bark (Scaly Ridges)

Dark 81

Basic 207 Secondary 207 + 214

Dark 214

Light 208 Pinecone Brown 28, 30, 373

Pine Tree (Coniferous/General) Foliage Colors

LEGEND

- + Mix listed recipe colors together for one resultant color
- & Use all listed color mixes individually on the scene , Multiple recipes separated by a comma indicates a variation of selections

Medium 98 Light 100 Trunk Colors Bark (Scaly to plated) Branches 398 & 26 Secondary 31 Dark 26 Light 40 Pine Tree (White) Foliage Colors Dark 169 Medium 170 Light 171 Trunk Colors Bark (Wide verticals with deep furrows) Basic 162 Secondary 162 + 161 **Dark 163** Light 161 Basic Pine Greens Dark 81 Light 100 Middle 98 Plum Tree (Purple) Foliage Colors **Dark** 194 Medium 195 Light 196 Trunk Colors Bark (Smooth to scaly with some lenticels) Basic 224 Secondary Inner Bark 223 +235Dark 222 Light 223 Fruit Colors Purple Light 291 Medium 294 Reddish Light 297 Violet 270 Poplar Tree (White) Foliage Colors Dark 226 Medium 227 Light 201 Trunk Colors Bark (Young Smooth, Mature Furrowed) Basic 207 Secondary 207 + 232 Dark 216 Light 232 Pussy Willow Gray 485 Foliage Colors Dark 195

Light 190 Bark (Fissured on Older Trees) Basic 49 Secondary 49 + 56 Dark 52 Light 56 Redwood Tree Foliage Colors Dark 92 Medium 89 Light 90, 91 Trunk Colors Bark (Fibrous and Furrowed) Basic 48 Secondary 45 Dark 46 Light 56 Spruce Tree, Blue Foliage Colors Dark 173 Medium 174 Light 163 Trunk Colors Bark (Thin, scaly) Basic 38 Secondary 38 + 26 Dark 26 Light 56 Sycamore Tree Foliage Colors **Dark** 169 Medium 170 Light 171 Trunk Colors Bark (Scales, flaking) Basic Under bark 237 Secondary 223 Dark 216 Light 221 Walnut Tree (Black) Foliage Colors Dark 161 Medium 162 Light 163 Trunk Colors Bark (Furrowed) Basic 206 Secondary 206 + 214 Dark 214 Light 208 Walnut Brown 476 Walnut Green 484

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Willow Tree (Weeping)

Foliage Colors

Dark 187 Medium 189

Walnut Tan Light 478

Light 190 Trunk Colors Bark (Ridged and Furrowed) Basic 207 Secondary 217 Dark 216 Light 218 Yucca Tree Foliage Colors Dark 197 Medium 193 Light 190, 87 Trunk Colors Bark (Oblong vertical plates) Basic 206 Secondary 207 Dark 214 Light 215 Tumbleweed Gray 241 Green 240

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Colors)

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W

Wheat Amber 363 Golden 364 Light 365 Whites Alabaster Pink 253 Brownish 354 Chalk 108 Cream 118 Ivory 108, 139, 212 Jade 165, 358 Milk 108 Mission 355 Opal 359 Oyster 356 Paper 108 Wildlife Antelope Tan 21

Medium 196

LEGEND

- + Mix listed recipe colors together for one resultant color
- & Use all listed color mixes individually on the scene
- , Multiple recipes separated by a comma indicates a variation of selections

Bear Fur Brown 22 Gray 24 Tan 23 Beaver Fur Brown 27 Dark 26 Light 25 Bluebird Blue 3 Blue Jay 2 Buffalo 28 Camel 29 Canary Green, 10 Yellow 5 Cardinal Red 20 Chickadee Gray 33 Chipmunk Brown 30 Tan 29 Condor Brown 22 Coyote Tan 32 & 39 Deer Tan 32 Dove Gray 34, Eagle Brown 22 Elephant Skin Gray 35, Light 36 Elk Tan 25 Fawn Brown 27 Light 21 Flamingo Pink 17 Black 42 Gray 14 Tan 45 Goat Light 7 Gull Gray 37 Hawk Brown 23, 31

Horse

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Black, 42

Brown 43

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Sorrel 28

Palomino 21, 22, 6 Roan 46 Jack Rabbit Gray 33 Tan 25 Lamb's Wool 6 Lion Tan 29 Llama Tan 40 Meadowlark Brown 28 Monkey Brown 26, 38 Moose Gray 39 Tan 38 Mouse Gray 36 Oriole Black 42 Green 9 Orange 18 Tan 29 Otter Brown 27 Brown 26 Gray 14 Parrot Blue 1,2 Green 11 Partridge Brown 15 Gray 13 Red 16 Peacock Blue 4 Green 8 Pelican Brown 27 Gray 35 Pheasant Blue 1 Brown 22 Gray 33 Green 12 Orange 18 Purple 344 Red 19 Pigeon Black 42 Gray 13

Quail

Brown 27

Gray 38

Reddish 19

Rabbit White 6 & 249 Seal Brown 43 White 56 & 249 Sheep Wool Cream 6 Sparrow Brown 26 Gray 13 Red 47 Tan 38 Thrush Brown 18 Gray 17 Orange 47 Turkey Blue 116 Red 16, 19 Zebra Black 42 White 6 & 249 Wood, General Basic Cream 262 Basic Tan 361 Basic Yellow 139, 365 Old Weathered 320

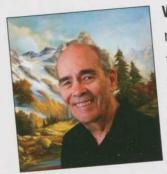
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Oil/AcrylicConversionChart

THE OF THE O	ACRYLIC COLOR NAME	EQUIVALENT MIXTURE
OIL COLOR RAME	Alizarin crimson	
Alizarin crimson		
Burnt sienna	Burnt sienna	
Burnt umber	Burnt umber	
Cadmium orange	Cadmium orange	
Cadmium red light	Cadmium red light	
Cadmium vermilion	Vermilion hue (or use mixture)	1 part Indo orange-red + 1 speck Naphthol crimson
Cadmium yellow light	Cadmium yellow light	
Cadmium yellow mediur	n Cadmium yellow medium	
Cerulean blue hue	not available (use mixture)	1 cerulean blue + 1 speck phthalo blue
Chrome oxide green	Chromium oxide green	
Cobalt blue	Cobalt blue	
lvory black	lvory black	L Jouida L
Naples yellow hue	Naples yellow hue permanent (or use mixture)	4 parts yellow ochre/oxide + 1 part white + 2 specks cadmium orange
Phthalo red	Naphthol crimson or phthalo crim	mson
Raw sienna	Raw sienna	
Raw umber	Raw umber	
Titanium white	Titanium white	
Ultramarine blue	Ultramarine blue	
Venetian red	Venetian red or red oxide	
Viridian green	Viridian green or viridian hue p	permanent
Yellow ochre	Yellow ochre or yellow oxide	
Zinc yellow	Yellow light hansa	

About the Author



william F. Powell is an internationally recognized artist and one of America's foremost colorists. A native of Huntington, West Virginia, Bill studied at the Art Student's Career School in New York; Harrow Technical College in Harrow, England; and the Louvre Free School of Art in Paris, France. He has

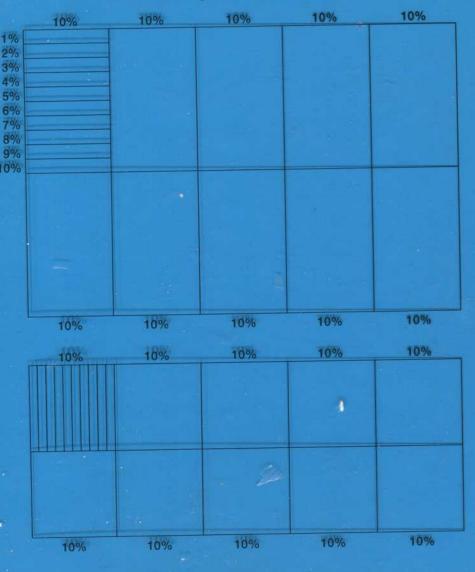
been professionally involved in fine art, commercial art, and technical illustrations for more than 45 years. His experience as an art instructor includes oil, watercolor, acrylic, colored pencil, and pastel—with subjects ranging from landscapes to portraits and wildlife. He also has authored a number of art instruction books including several popular Walter Foster titles. As a renowned master of color, Bill has conducted numerous "Color Mixing and Theory" workshops in various cities throughout the U.S. His expertise in color theory also led him to author and illustrate several articles and an educational series of 11 articles entitled "Color in Perspective" for a national art magazine. Bill also has performed as an art consultant for national space programs and for several artists' paint manufacturers. His work has included the creation of background sets for films, model making, animated cartoons, and animated films for computer mockup programs. He also produces instructional painting, color mixing, and drawing art videos.

Color Mixing Grid

Watercolor

Dilute each color to be used in the recipe to the indicated water level.

Next use a wet paintbrush to pull the diluted colors onto the grid in the suggested ratios. Finally, mix the colors on the grid to achieve the desired color. Use the larger grid for mixing large amounts of color and the smaller grid for small amounts.





Follow These 4 Simple Steps to Mix More Than 1,500 Color Combinations



STEP ONE Look in the Color Guidance Index for the subject you want to paint for example, "Broccoli."

STEP TWO Find the Color Recipe with the subject's recipe number ("81") and a photo of the actual paint mixture.

STEP THREE Use the Color Mixing Grid to measure each paint color.

STEP FOUR Mix the color. It's that easy!





The plastic Color Mixing Grids (included) ensure accurate paint measurements!

Also Includes Instruction in

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